

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-055-Q1-K1-B1

<400> 8935

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tctggctgtg tactacaagc aatcctagta ctcttcttc tcgtttctac tattacacat 180  
tatacatatt ttcttttttt ttgcttattt cttttttccc ttattttttt aatttattat 240  
ttttattctt tttatataat tttatttttt taatctatct tattaatatt tattatggta 300  
ggtattttata ttttttttta tatattttat ttattttttt atttttatat ttataatttt 360  
ttatattttt cttttttatt ttaatttata tttttttttt tatttttttt ttcttttttt 420  
tttattattt tattttatta ttattttt 448

<210> 8936

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-G6

<400> 8936

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caatgctcac ttgctcctag ttccattatt ccacagttcc tcccaccagt tacttcaatg 180  
gccttcgaac acccagctgt gcaagcctat aggctacaac aagcgattgc ggcgagcgtc 240  
ttacaacaac caattgcccc attgcaacaa caatccttgg cacatctaac aatacaaacc 300  
atcgcaacgc aacagcaaca acagttccta ccaacactga gccacctagc catgggtgaac 360  
cctgtcgctt acttgcaaca gcagctgc 388

<210> 8937

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-E8

<400> 8937

agcaactagc aacatagaaa gcacaatagt gtaccaacaa tggtagcaa agtatgtgcc 60  
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cacaagctcc tatagcttct cttcttcccc catacctctc accagcgttg tcttcagtat 180  
gtgaaaaccc aattcttcaa cctacagga tccaacaggc aatcacagca ggcattctac 240  
ctttatcacc cttgttcctt caacaatcat cagccctatt acatcaatta cct 293

<210> 8938

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-E9

<400> 8938

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acgtctcgct ctgcatcacc ctgctgaacc tgaagccggg ctctgcggac taagccctct 180  
tcgccaacgc ctccaagatc acgccgtcag cgggcggcaa ccctgcgagc gacagcgccg 240  
cgggcagcgg cgtcaagctc cgggctgggg tcagcggcgg cgtcgcgcgg gggcgtgtct 300  
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<210> 8939

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-F1

<400> 8939

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tgttatttat cttgtttgaa aagccctttg attgcaatca taaattgtca tataattcca 120  
acattgattt ctattcttat atttttttat tttttattaa ttttattttt atttttattt 180  
attattttta tttattatat ttttatttct ttattttttt tttttttttt tttttatatt 240  
attatatttt tttttatttt tattttattt tttttttttt tttttttttt tattttattt 300



ttgtgtgtgtt tttttatttt ttttttttct ttttttattt tttttttttt tttatttttt 360  
tattatttta attctttatt tataattttt ttttttttat ttttt 405

<210> 8940  
<211> 410  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-F11

<400> 8940

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ctcctatagc ttcccttctt ccccatacc tctcaccagc ggtgtcttca atgtgtgaaa 180  
accaattgt tcaaccctac aggatccaac aggcaatcgc aacaggcatc ttaccattat 240  
cacccttggt cctccaacaa ccgtcagccc tattacagca gttacctttg gtccatttgg 300  
tggcacataa catcatggca caacaactac aacaacttgt gctagcaaac cttgctgcat 360  
actctcaaca acatcaagtt cttccattca accaactggc tgcattgaac 410

<210> 8941  
<211> 335  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-054-Q1-K1-F12

<400> 8941

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gtcgttggtta caaggctatt tatgatatcc cagcaataaa ggaagatcca accaagtgga 180  
taccgattct taggaagatc tgttggtact tgggtgctagc acctcatgat cctatgcaat 240  
cgagccttct caatgctaca ctagaggata aaaacctatc agagatgggg gatttcagga 300  
tattgctgaa gcagctgggt accatggagg tcatt 335

<210> 8942

<211> 359  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-F2

<400> 8942

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ctgccgcctc gctccggggc tgggtgggacg atgtcaacga gtcgccccag tggcaagacg 120  
gggccttctt ctccctcgcc gccgcctacg ccctcgtctc cgccgtcgca ctgattcagc 180  
tcgtcaggat ccagcgccgg gtgcccaggt tcggatggac cagcgagaaa gtcttcacc 240  
tcatgaactt cttgtcaat ggggtccgtg ctctggtgtt cggttccat gtccatgtct 300  
tcctccttcg cacataagta tacaagttgg tgttgctaga tctccccgt tgggtggtt 359

<210> 8943  
<211> 389  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-F3

<400> 8943

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catgccatct ggggtccggc ttccggcatc caccaggcgt caatacgggt cagcgagcag 120  
cgagcagcaa gtcaccgagc agccgagcga ccgccgagca cagggcacca ccgagcagcc 180  
gagccaccgc cgagcaccga gtcttctctg ttcttctgtg gcgaacaagg tcaatccagg 240  
gccgtggtgc ggggtgctgt ttttttttcc aacatgttta tgttggtcgc tcgaccgctg 300  
caacaatgaa gatacagaaa gcaaatgcag gtgtccttac aaacttcgaa gtccttgact 360  
tcttgcggtc aagagggtgcc aaaattgac 389

<210> 8944  
<211> 146  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-F6

<400> 8944

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 tatggagtgg ttgggcagca tcaccacca gaactccatg tacaccacc agtctgacaa 120  
 gacatccatg tcacaggaac tgtctc 146

<210> 8945  
 <211> 315  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-F8

<400> 8945

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 aatggtgaac gttcctaaga ccaagaagac ctactgcaag aacaaggagt gcaagaagca 120  
 cactctccac aaggttactc agtacaagaa gggtaaggat agcctgtctg ccagggaaa 180  
 gcgccgttat gaccgcaagc agtcaggata tgggtggccag accaagcctg tcttccacaa 240  
 gaaggccaag accaccaaga aaatcgtggt gaagctgcag tgccagagct gcaagcacta 300  
 ctcacagcac gcaat 315

<210> 8946  
 <211> 409  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-F9

<400> 8946

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 cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata 180  
 gcttcagtat gtgaaaaccc agctcttcaa ccctataggc tccaacaagc aatcgagca 240  
 agcaacatac ctttatcacc cttgtttcaa caatcgccag ccctatcttt ggtgcagtca 300  
 ttggtacaaa ccatcagggc acagcagctg cagcaactcg tgctacctgt gatcaaccaa 360  
 gtagctctgg caaacctttc tcctactct cagcaacaac aatttcttc 409

<210> 8947

<211> 105  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-054-Q1-K1-G10  
  
 <400> 8947  
  
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 tgtgtgatca tgtcttgcat catcttcaag ttcaactggt tcttc 105

<210> 8948  
 <211> 290  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-054-Q1-K1-G11  
  
 <400> 8948  
  
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 ttatggggta gtgctgcaac ctgacatcgc agaccaaacac atctggcgcc tctctgctca 120  
 tggctacttat tgtagcaaat cggcctatga tgctctcttt gttggctcta tcccttttgg 180  
 cccttggcga cgtgtctgga agacctgggc ccccttaaga tgcaaattct ttgtatggtt 240  
 ggcaatcaaa aacagggttt ggacagctga tcgacttgca taatgagggg 290

<210> 8949  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-054-Q1-K1-G12  
  
 <400> 8949  
  
 gcgggagaaa gcacaatagt gtaccaacta atggcagcca aaatattttg cttccttgtt 60  
 ctcttggtgc tttctgcaag tgctgctacc gcaaccattt tcccacaatg ctcaaacgt 120  
 cctatagctt cttttcttcc ccctacctc tcaccagcgg tgtcttcagt atgtgaaaac 180  
 ccaattcttc aaccctacag gatccaacag gcaatcgag caggcatctt acctttatca 240  
 cccttggttc tccaacaacc gtcagcccta ttacagcagt tacctttggt gcatttggtg 300  
 gcacaaaaca tcaaggcaca acaactacaa caacttgtgc taggaaacct tgctgcctac 360

tctcagcaac agcagtttct tccattcaac caactggctg cattgaactc tg 412

<210> 8950

<211> 70

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-G3

<400> 8950

attccccgtc taccaccct cgcactttat tatgaccatg catatatttt gttcatacca 60

cacatgataa 70

<210> 8951

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-G4

<400> 8951

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tttaattaca acttataagc aatctaaaat agggcaccac caatgatgtg ttgttggtag 120

gatgctgctt tgtttttcaa attcaatatt tacaatttc ttcaattggt atttttttta 180

attttttttt tatatatttc aatttctttt aatttttttt ttttcatttt tttttat 237

<210> 8952

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-G5

<400> 8952

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ttcccacaat tctcacaatc tcctatagct tcctttcttc ccccatacct ctccaccatct 120

atttcttcag tatttttaaaa cccaattctt caaccctaca ttatccaaca ttcaatctca 180

tcatacatct tacctttatc accctttttc ctccaacatc catcatccct attacat 237

<210> 8953

<211> 332  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-054-Q1-K1-D1  
  
 <400> 8953  
  
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 gaaggttccg gcggcttcca gtgatgtgtt cgccacagaa cgagcagcac ctgctgcagg 120  
 aacaaacact taacaacaat gctcgtcctc cggagaagag gcagcggggt ccgtcggcgt 180  
 ataacagatt catcaaggaa gagatacgca ggatcaaagc gaacaacccc gacattaacc 240  
 acagggaagc cttcagcacg gcagccaaga attgggcaca ttatccaaac atccatttcg 300  
 gtttaaacga ctccgggcga gaaggcaaga ag 332

<210> 8954  
 <211> 287  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-054-Q1-K1-D11  
  
 <400> 8954  
  
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 cttgaattgg aaattgccaa aagtgcgctg actgaactta agaaggaatg cgttgaagca 120  
 atggagactc aactcaagag ggaggagttt caagatgagg agatgcctga tgtcaggaaa 180  
 ttggacatca gaaacttcct gtaggcctga tcgacgataa tctttgaggc ccaacgcacc 240  
 tctggttttag gtttcaagtt gatcgggtgct tcatacctat taatgct 287

<210> 8955  
 <211> 329  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-054-Q1-K1-D12  
  
 <400> 8955  
  
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 agctgttact ggatctgtgc cacctccaag atgtgggcat tcggcaacca tgattgagaa 120

gagactcctt atatttggag gcagaggtgg agcaggacca ataatgggtg atttatgggc 180  
 tttaaagggt attactgaag aagacaatga ggcgccaggt tggacacagt tgaaacttcc 240  
 agggcaatct cccttaccac gattcgggtca ttcattatca tctgggtgggg ggtatctatt 300  
 gctttttgga tgactattgt atctgtttt 329

<210> 8956  
 <211> 290  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-054-Q1-K1-D3  
 <400> 8956

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 gcagctggcc accaaggcgg cgcgcaagtc ggctccggcc accggcgggc tgaagaagcc 180  
 gcacaggttc cgccccggca ccgtcgctct ccgcgagatc cgcaagtacc agaagagcac 240  
 ggagctgctc attcggaagc tgccctttca gctgctggtg cgtgtgatcg 290

<210> 8957  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-054-Q1-K1-D5  
 <400> 8957

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 catacaagcg gcagctgcgg ctgccagcca ccgccgccgg ttcattctacc gccgccggtg 180  
 catctgccac ctccggttca cctgccacct cctgtgcac tcccaccgcc ggtccacctg 240  
 ccgccgccgg tccacctgcc accgccggtc catgtgcgc cgccggttca tctgccgccg 300  
 ccaccatgcc actaccctac tcaaccgccc cggcctcagc ctcatcccca gccacacca 360  
 tgcccgtgcc aacagcgcga tccaagcccc tgccagctgc agggaaacct cggcgttggc 420  
 a 421

<210> 8958  
<211> 332  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-D6

<400> 8958

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cttattaata ttggcaccaa atcaaatctg caacatcaat tatctaactc caaaaaccat 120  
gaatctgggtg cttgtgggtc ttgctttcat tgctttaata tcaagtgttt cttgtacaca 180  
gacacgcagc tgtatctttc atcaacaaca aattcatcat catctacatc atccacatca 240  
acatcatcca caaaaacatc aacatcaact acaaccacaa catcatcatc atcagcgaca 300  
tctacaacaa cattttcaca ttctacctca tt 332

<210> 8959  
<211> 292  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-D7

<400> 8959

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ataaataaaa aaaatagaaa gaaaaaaaaac aaacaaaaaa aaaaaaaaaa aacacaaaaa 120  
cactccctcc cctctacata ttccatcttt actccccctt cctttcaaca tcttcctct 180  
tctatacctc ccctaattt catttcacct ccttcctttt caaaatttct caccttcaaa 240  
acccttcctt ttccccaacc tattctcctt tcttcaattc ccccttttcc ca 292

<210> 8960  
<211> 419  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-D8

<400> 8960

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cgccctgata tccggcgcca gcaacagcta cagaggcatg gtcgtctagg actccatcac 180  
cgtctgcgcg gttgccacag ccgtttatct cattatctgc attacctatc tgttctttta 240  
tcatctgcat ttttattttt attgtcttgc ttttttttta tttttttctt ggggggtggg 300  
ttttttttta tttatttttt tttttatttt tttttttttt ttattttttt ctttttttat 360  
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<210> 8961

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-D9

<400> 8961

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tctggggcct cggttcgggc gtgccgtcca tggccatgct actcgcgctc gccatcttcc 120  
tgctcggcac gaggacctac aggttctacg gctcccgcgg tgggtgctgtt tccaattcca 180  
gcttcttttt tattttttat tattttatat tatatttttt atttatatta tttattttatt 240  
tatttttttt ttattttatt ttattttttt tttttttttt tatattttatt gggggggggg 300  
tttattttatt tattttttta tttttttttt tattttttat tttttataat tttttttt 357

<210> 8962

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-E1

<400> 8962

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gtgatcaacc aagtagctct ggcaaacctt tctccctact ctccgcaaca acaatttctt 180  
ccattcaacc aactgtctac actgaaccct gctgcttatt tgcagcaaca actattacca 240  
tttagccagc tagctactgc ctactctcaa caacaacaac ttcttccatt taaccaattg 300

gccgcactga accccgctgc ttatttgcag cagcaaatac tactaccatt tagccagcta 360  
gctacagcaa gccgtgcttc cttcttgaca caacaacagt tgctgccgtt ctaccagcaa 420  
tttg 424

<210> 8963  
<211> 351  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-054-Q1-K1-E11  
<400> 8963

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accttgttgg tgaggatgac cagaagctgg ctgaaggaat tagtctgctc tctgtctctt 120  
cggaaaaccg tgaaaaacca gctgttcttg ggaaattgat taaggaacat gcaaaagggtg 180  
gcaagtgcac tgtttttaca caaacaaaaa gggatgcaga tagattgtca cacaatatga 240  
gtcgaagttt ccaatgtgag gcgcttcacg gggatatctc tcaatctgaa agagagagga 300  
cactggcagg atttcgggat gggcggttta atatattgat tgttactgat g 351

<210> 8964  
<211> 231  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-054-Q1-K1-E12  
<400> 8964

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caaattggccg cagtgaaccc cgcttcttat ttgcagcagc aaatactact accatttagc 120  
cagctagctt cagcaaaccg tgcttccttc ttgacacagc aacagttgct gcctttctac 180  
cagcaatttg cggctaaccc cgcaaccctc ttacaactac aacaaattgt g 231

<210> 8965  
<211> 416  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-054-Q1-K1-E2

<400> 8965

cgacgcgctc cgggcaattg cagaatgcga cgacgtgaag agcaaaaacc cggatgggtg 60  
aatcgtagat aaatacaaca cctccaaacg atcagtgtcg cttgtgcaga agcaccgaga 120  
gagcaaaaag gagaaaaaga agcaaaagca gcacgagaaa gaggaatggg agggaaacca 180  
cccatggaag ccatgggacc gggagaagga tctgtctgct gggcgccaga atgtggcctt 240  
agacgcagag aacatgtcgc aaggattatc ttcccgtttc gcgtctggtg ctgttcagcg 300  
gaacttcctg tgagctgtgt ggaaagatac tcctggagca tggctaatc gatgatcaat 360  
gtccagttat tacaatctgg tccgcagatg gcaaagaata tgcttacata taaaaa 416

<210> 8966

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-C9

<400> 8966

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agttaccttt ggtccatttg gtggcacaaa acatcagggc acaacaacta caacaacttg 120  
tgctagcaaa ccttgctgca tactctcagc aacatcagtt tcttccattc aaccaactgg 180  
ctgcattgaa ctctgctgct tatttgcaac aacaactacc attcagccag ctagctgctg 240  
cctaccccca gcaatttctt ccattcaacc aactagcagc attgaactct gctgcttatt 300  
tacagcagca acaactacta ccattcaacc agctagctga tgtgagccct gctgccttct 360  
tgacacaaca acaa 374

<210> 8967

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-E3

<400> 8967

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tgtatttgct aactccaatt caaacagctc gatgggtgct cctgtcctgg agaacaatgc 120

tgttgatctc actgatgggc tgacagatctt ggaatcctat atgagggttc ttatggatgg 180  
 cggtgcaagt gattcaattg atagccttct gaaccttgat ggatcacagg atcttggttag 240  
 caatatggac ctctggacct tcgatgacat gcccatcgct ggcgatttct tctgaggaat 300  
 ttgaagcttg gccataggac tatgtacata gggactaggg aataaagact gggagattgt 360  
 gaagcacctg cttggcacct tgtggttagca tatgctcgtg tctagc 406

<210> 8968

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-E4

<400> 8968

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 gtactcaaaa tgtacctatc aaagtactca agccttagcg tattagcggt gatattctac 180  
 gtgagtatcc acagcaagat tatataatga cacaattttt taacactaca gtattccact 240  
 ttatttcacc attcacatca catccttatt actctattat caccaacaat aatcattcca 300  
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<210> 8969

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-E5

<400> 8969

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 gcggatgctc gagccactac tgcaccagca caaactagta ttgagtgcag catgttttgc 180  
 agttcggaca gggaatacgt ttttggttcc cctactgtgg atcgactatg ccagggtgat 240  
 aggcttacag tacgctcaag catgggtaca catatgcagt tgctctgagt ggcagcaata 300  
 ttgttacttc gtaattttat attatcactc ctttcttcaa ctggcaagtt ctcttttgct 360

tatatgtggtt actttttat

378

<210> 8970

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-B11

<400> 8970

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aatattttgc ctgcttatgc tccttgggtct ttctgcaagt gctgctacgg cgaccatttt 120  
cccgcaatgc tcgcaagctc ctatagcttc ccttcttccc ccgtacctct caccagcggg 180  
gtcttcggta tgtgaaaacc caattcttca accctacagg atccaacagg caatcgcagc 240  
tggcatctta cttttatcac ctttggtcct ccaacaatca tcagccctat gacaacagtt 300  
acctttgggtg catttattgg cacataacat cagggcacaa caactacaac aacttgtgct 360  
agcaaaccctt gctgcctact ctcagcaaca gcattttctt tcatt 405

<210> 8971

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-B5

<400> 8971

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ccagagccat gcggtgcttg ccctccagga ggctgctgag gcataccttg ttggcctggt 120  
tgaggacacc aacctgtgcg ccatccatgc taagcgtgtg accatcatgc caaaggacat 180  
tcagctggca aggaggatcc gcggcgagag ggcctaatacg ccacctcaaa catcgtgaca 240  
aaaacatgaa gtcctgggggt tattgttaat ctggtgccat tgtaaggaca tatgagtagg 300  
gtttgttttg ttgatcgcaa gtttctcttt tgctactggt gctgctacct ttgctgatgt 360  
tattgctagg ttcttattcc taagttaact a 391

<210> 8972

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-B7

<400> 8972

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gtcgccgcca tggatgaagta ctgcgaggag ccgggcaacc ctaccaagtc ggctaaggcc 120

atgggcaggg atctgagggt ccacttcaag aacacaaggg agacagcctt tgcgcttcgc 180

aagttgtctt tgaccaaggc taagcgatac cttgaggatg ttattgctca caagcaggca 240

attcccttcc ggagatactg tgggggtggt tgttattttt ttttaatctt aa 292

<210> 8973

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-B9

<400> 8973

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ataactgccg cttgatctgt agctcgaagg gtttcaagga cgggtggctgg tgtgacgaaa 120

gcgtggagca caaagtgtgc tgctgctccc attagaaata taatagcgta tgttatgttg 180

atgcatatat atatgcatca tccatctacc tgtgtggtgc aaaattctga ataaaacctg 240

aataaaacct gattgagcac ataaaataaa a 271

<210> 8974

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-C1

<400> 8974

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gttcgatccg tggccggtct tcttcgcccg ggagtggaag cgcaattggc ccttcctcac 120

ggggttcgcc atcaccggct tcatcatcac taagatgacg gccaaacttca ccgaggagga 180

cctcaagaac tocaagttcg tccaggagca caagaagcgc tgaccaacca agtgttgtcc 240

gaattgacctg tctggacagc cagttatggt atgctgtttg aatgaaaaat tagcttcttt 300  
 ttcttcatct aaatgcgtgc agcctatgct ccatctgtaa tgtaataaga ggcaactgac 360  
 ttgatccaaa agctaccagc ttctgattat gaatgatact tcaagtttt 409

<210> 8975

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-C10

<400> 8975

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 ggatgtttgc gacgagtga ggttggtcac acatcgaggt ggatctatgg gcagatatat 120  
 attccagaaa taaattggat tcttatgggt ctttgtgttg ctgtcactat tgcatttcgt 180  
 gatactactc ttatcggcaa tgcctacgggt attgcctgca tgactgctat gttcgttact 240  
 acattcttga ttgcttttat aattaatatt gtttgtcatt tgggtggggg ggggtgtattt 300  
 attttttttt atatttttgt aattatttta ttttataaat attatttatg tttttttttt 360  
 atatattttt tttatttttt tttttttttt attttttttt a 401

<210> 8976

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-C11

<400> 8976

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 tgtcaacggc ctgagttaga gcatctaccg atgactaagg cggtcggaa gatactttat 120  
 gcagctgatg caaaggattc accgctacct gaggcgaatg atataatcac aaagtcacca 180  
 agcttgttct caaatgaaac cgagtgagat gtgcggctac atgagctaatt tttggtgctt 240  
 attttccatc attgatcgtc ttagttttta gttttttttt ttgggggggg ggtttgtttt 300  
 tttttttttt gttttgtttt tttttttttt tttttttttt ttttttttgt tttttttttt 360  
 tttttttttt tttttttttg tgtttttttt tttttttgtt ttttt 405

<210> 8977  
 <211> 184  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-054-Q1-K1-C12  
  
 <400> 8977  
  
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 gtttcctcac gcggaaaaag agtccggctg caaccgggat gttggcggcg ataagactcc 120  
 ggcaacgaaa cacctcactc aggactggcg cttgcctatg accaccaag cctgcttttg 180  
 gggt 184

<210> 8978  
 <211> 301  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-054-Q1-K1-C2  
  
 <400> 8978  
  
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 gcctcctcct tgtatctgca ctccccctt cacagatccg ttctccagc tagggttagc 120  
 gttcctctgc agcgatggcg atcaagcgga ccaaggcgga gaagaagatc gcgtacgaca 180  
 agaagctgtg cagcctgctc gatgagtaca ccaagggtgt catcgccctc gccgacaacg 240  
 tcggttccaa gcagctccag gacatccgcc ggggcctcat gggcgactcg gtgggtgctca 300  
 t 301

<210> 8979  
 <211> 428  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-054-Q1-K1-C4  
  
 <400> 8979  
  
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 tgtctcctt gccctccttg ctctttcagc aagcgtgct acctcgactt ttattccaca 120



atgctcacia caatacctct ctccggtgac agccgcggga tttcaatacc caactataca 180  
atcctacatg gtacaagagg ccatccaagc aagcatctta cggtcattag cattaaccct 240  
ccaacaacca tatgctctat tgcaacagcc atccttagtg catctgtatc tccaagaat 300  
cgcggcacia caactacaac aacagttgct accaacaatc aatcaagtag ttgcaacgaa 360  
ccttggtgct tacctcgagc aacatcagtt tcttccattc aatcaactag ctggggtgaa 420  
ccctgctt 428

<210> 8980  
<211> 266  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-C5

<400> 8980  
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tcttctcgtc tgctgctttc gtcgcggcgc ttcacctcta cgcgcgggtgc ctctgcagc 120  
ggcgcgtcgc cctcgcggaa ggcagccctc gcgtggtcgc gctgcagcgg cagctcccgc 180  
cggacggcta cgtggttgag gtcgcttctta tttttcttat acttcttcgt tttcatttta 240  
ttatttttat ttttttttat tttttt 266

<210> 8981  
<211> 298  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-C6

<400> 8981  
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aatcccaaac aattaccatt tcatgaagtt gcacaagatt accaggaggt tgacagtgtc 120  
attccggaga gcaatgaaaa tcaggaccgg cttttcactg gagatgcaac ccatcaggtt 180  
tcatcgaatg attgttatga agctggaatt ggtatcgcgt cagaggccag taacatcatt 240  
cacaatgatt taccagaaga atcagccgct gctgatttcc cgggtggtgat acctgatg 298

<210> 8982

<211> 286  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-054-Q1-K1-C7  
  
 <400> 8982  
  
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 tttagcggcg atgagtaacg tagtgtcacc catcaccatg ggtggcagtg tgagcaatga 180  
 cctgaatgaa ccattgaaat ggaaaggaat aatatataag gaaaaaagat gattggaaac 240  
 tgataaaatt aataatttaa attataataa ataaatttta atattt 286

<210> 8983  
 <211> 408  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-053-Q1-K1-G5  
  
 <400> 8983  
  
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 aggaggggaag gtatccttca agatcaccct cacctccgac cccaagctcc ctttcaaagt 120  
 gttcagcgtg cccgaggcgg cgcccttcac cgcggtgctc aagtacgccg cggaggagtt 180  
 caaggtcccg cccagacca gtgccatcat caccaacgat ggaattggca tcaaccccca 240  
 gcaaagtgca ggcaacgtgt ttctgaaaca tggttcggag ctgcgtctca tccctcgca 300  
 tagagttgga gctgtagtca tgtcttcggt ttagaggata tatacagtcc aatgcataat 360  
 gagcaaaact tgagagaaat aaagctttga tggtggcctt gcttggct 408

<210> 8984  
 <211> 356  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-053-Q1-K1-G6  
  
 <400> 8984  
  
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cacaaaggaa agaatactaa aaaatcaaac aaaaaaaaaa aacacaaaca aaatgccaac 120  
ctgtacaaag tacccaagcc tacatacctt cacctccgag ctcaaatacg ccacatagga 180  
gcacaaaaac ccaacccaca ccacttccat caacaccaac gatacaataa aaaccaaccc 240  
ccaaccaaac tcaatcaact tgcatacaca acatctttcg caacttcgcc tcatacctaa 300  
caatacagta ccaactgcac tcacgaacag cggctaaacc atatatacaa taaaaa 356

<210> 8985

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-G7

<400> 8985

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ctggtgacct tgctccatta gatggcatgg ttccggcgcca caatcacctg cgcattgcac 120  
agtaccatca gcatcttgcg gacaagctgg atctggacat gccggctctg gcttacatga 180  
tgaaggaata ccctgggacc gaagaagaga agatgcgagc tgctgttggc aggtttggcc 240  
tatcaggaaa ggcgcaggtg atgccaatga ggaatcttct tgatgggcaa aggagccgtg 300  
tcacttttgc atggttggca tataggcagc cgcaactgct actgctcgat gagccgacaa 360  
atcatttggc cattgagacc attgactccc tggcggaggc actgaatgaa tg 412

<210> 8986

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-G9

<400> 8986

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gtggagaagc tgtttgagat cgaccctgat ggtaccgtgg tcgctctggc tgacatgatg 120  
aggaagaaga tctcaatgcc tgcccacctg atgtttgacg ggcaggacga caagctgttc 180  
gagcacttct ccatggctgc gcagaggctt ggcgtttaca ccgccaggga ctacgccgac 240  
atcctcgagt tctctgctga caggtggaag gtggcgagcc tgactggtct gtcgggtgaa 300

gggaacaagg cgcaggacta cctttgcacc cttgcttcaa gaatcaggag gctggaggag 360  
 agggcccaga gcagagccaa gaaagccggc acgctgcctt tcagctgggt ata 413

<210> 8987  
 <211> 245  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-H11

<400> 8987

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 ttcagggtcat tgctcacact gacactgcc a cccatgggtga tgcgtgacac attattactc 120  
 aatcatcgcc gctaaatgac tcaactagct agctagccag cggctatact acagcacccc 180  
 tatectgggc cattgcttca agttcctgag gcatcactgc agcctgactg caactcccta 240  
 ctgct 245

<210> 8988  
 <211> 424  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-H12

<400> 8988

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 gaactctgct gcttatttgc aacaacaact accattcagc cagctagctg ctgcctaccc 120  
 ccaacaattt cttccattca accaactggc atcattgaac tctcctgctt atttacagca 180  
 gcaacaacta ctaccattca gccagctagc tgggtgtgagc cctgctgcct tcttgacaca 240  
 acaacagtta ttgccgttct acctgcacgc tgcgcctaac gctggcacc tcttacaact 300  
 gcaacaattg ctgccattca accaacttgc tttgacaaac ccagcagcgt tctaccaaca 360  
 acccatcatt ggtgggtgccc tcttttagat ttcttatgag ttatagttca ataataaagt 420  
 tttt 424

<210> 8989  
 <211> 416  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-H5

<400> 8989

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gacgctgggg cgtccaagac ctacccgcag caggctggca ccgtccgtaa gaacggcttc 180

atcgtcatca agaaccgtcc ctgcaagggt gtggagggtt ctacctcaa gactggtaag 240

catggccacg ccaaattgcca ctttgtcgcc atagacatat tcaatgggaa aaagcttgaa 300

gatattgttc cttcatcaca caactgtgac attccgcatg tgaaccgtac tgagtatcag 360

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<210> 8990

<211> 170

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-053-Q1-K1-H7

<400> 8990

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tgttgcaaga aggcgttaat gtttccaca acctgtgggt aaaatggcag cggtcgcgtg 120

ggcggtcgcg tagttaattt tgtggtatat gtagnttatt gaatgggaaa 170

<210> 8991

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-053-Q1-K1-H8

<400> 8991

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ggaatcgcaa agagggccgt ctcacccgag ttaaggaagc catggagcac aaggaggctg 120

ggtgccaggc ccccgaggga cccatcctct gcatcaataa ctgtggcttc ttcggcagcg 180

cggcgaccat gaacatgtgc tccaagtgcc acaaggagat gataacgaag caggatcagg 240  
ccaagctggc tgccctctct atcgacagca tcgtgaacgg cagcgacgcc gtcattggagc 300  
cggttggtgc tggcagcaac acggtagtag ctgttgccca agtcgagttg caaacaatga 360  
acgtgcagca gcccgctgat gttgccggac ccagcgaggn ggtggcggcg atctccaaag 420  
gggg 424

<210> 8992  
<211> 424  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-H9

<400> 8992

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ttcctcggag cggaggcgat ggctgggaag ggagggaaag gcttgctcgc cgcgaagact 120  
acggcggcca agtccgccga gaaggacaag gggaagaagg cccaatctc acgctcctcc 180  
cgcgccggcc tccagttccc tgttggacgt atccaccgtc agctgaagca aaggactcag 240  
gcaaatggac gtgttggtgc caccgcagcc gtctactctg ctgccatcct ggagtatttg 300  
actgccgagg ttctggagct ggctgggaat gctagcaagg atctgaaggt gaagcgtatc 360  
accctcgcc atttgcagct agccattcgt ggagacgagg aactggacac cctcatcaaa 420  
ggca 424

<210> 8993  
<211> 421  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-A1

<400> 8993

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acaagctcct atagcttctt ttcttcccc atacctctca ccagcgggtg cttcagtatg 180  
tgaaaaccca attcttcaac cctacaggat ccaacaggca atcgcagcag gcattctacc 240

tttatcacc ttgttctcc aacaaccgtc agccctatta cagcagttac ctttggtgca 300  
 tttgttgga caaacatca aggcacaaca actacaaca cttgtgctag gaaaccttgc 360  
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 t 421

<210> 8994  
 <211> 376  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 8994

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 caaaaattga tgaacaaata tgctgtcttg gaagcagcaa aaaaggcaaa agagtctggg 180  
 agcaccggtt tttgcatggg agctgcatgg agagaaacca ttggcaggaa atcaaacttc 240  
 aaccagattc ttgaatatgt caaggaaata aggggtatgg gcatggaagt ctgttgacaa 300  
 ctaggcatga tagagaatca acatgctgaa gaactcaaga aggctggact tacatcatat 360  
 aatcataacc tagata 376

<210> 8995  
 <211> 409  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-054-Q1-K1-A4  
 <400> 8995

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 gcatatgatg ctagagcagc agtgcatacc cggggcagaa aaggcgcagg atgcttcaac 120  
 cgctgcagat gaattgaggt caccttctga gattccagaa tcttctagag tcaaggaagt 180  
 tccagaaaac agtcaaatg gatcaaccaa gcaaacaaaa taagctaagg gccgatgaag 240  
 ttgcaagcat gaaatgtgtt tcatgatccg attggctggt tccaggctta aatcaagtgg 300

tttttgcct ttcttgggaa cagatttact ctatagttaa ttttcttgct aaatctgtct 360  
agttctatatt actaggtatt tttttttttt tttcttttct ttatttttt 409

<210> 8996  
<211> 236  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-054-Q1-K1-A5  
  
<400> 8996

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tatattaaga acaataccat agagagaagt tcctcagtgc tctcgcagct taaggagcaa 120  
acagcaacac ttacttcgt tttttatact ttattatagc cgcactgttt attactcggg 180  
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<210> 8997  
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<213> Zea mays  
  
<223> Clone ID: LIB3059-053-Q1-K1-G4  
  
<400> 8997

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caatgctcac ttgctcctag ttccattatt ccacagttcc tcccaccagt tacttcaatg 180  
gccttcgaac acccagctgt gcaagcctat aggtacaac aagcgattgc ggcgagcgtc 240  
ttacaacaac caattgcccc attgcaacaa caatccttgg cacatctaac aatacaaacc 300  
atcgcaacgc aac 313

<210> 8998  
<211> 408  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-053-Q1-K1-F1  
  
<400> 8998



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cttcaaaata agaattttct ggtagattgc aagagaatca cgagaacacc cagccaagta 180  
ataatcataa cgattcagta gatcagagtc aactgcccc ttcttcaagc cctactgaga 240  
gtacagatga aatttcacga gaagacgaag aaaataatga taaagagaac atggatccaa 300  
gcgctcagaa taatgatgta cataactcttg aacacctnca acaagccatc ggaggaaact 360  
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<210> 8999

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-F11

<400> 8999

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aatctggaaa gctacagcag gaaaaattga tggccttgta tctggtatcg ggacaggagg 180  
taccatcacc ggtactgggc gatacctcag agagcaaaat cctaattgtca agctctatgg 240  
tgtggagcca gtggagagtg ctgttttgaa tgggtgaaaa cctggaccac acaagattca 300  
aggaattgga gctggtttta tccctggagt cttggatggt gatctccttg atgaaactct 360  
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<210> 9000

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-F5

<400> 9000

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gcagcaaacc gtgcttcctt cttgacacag caacagttgc tgcctttcta ccagcagttt 180

gcggctaacc ccgcaaccct cttacaacta caacaattgt tgccctttgt ccaacttgct 240  
 ttgacagacc cagcggcctc ctaccaacaa cacatcattg gtggtgccct cttttagatt 300  
 gcttattagt tgtaattcaa taataaagtt ttttggatga tgtatgtggc caaccagaaa 360  
 taagaagtta catttccaga ttct 384

<210> 9001  
 <211> 417  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-053-Q1-K1-F6  
 <400> 9001

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 tgaaaggctt ggatgtggac aacctctatg tttcacacat ccaggtgaat caagcccaga 180  
 agcagaggcg ccgcacctac cgtgctcacg ggcgcatcaa tccctacatg tcctcacctt 240  
 gccacattga gctgatcttg tcagagaagg aagagcctgt gaagaaagag gctgacaaca 300  
 ttgtcgcagc aaggaagcag tgaagtatat cagcatgctg atcgaggcca ttttgtcgaa 360  
 gtattatagc cgtagctctt ttatgtacct tttcaggcag ctttgcctct cgagacg 417

<210> 9002  
 <211> 414  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-053-Q1-K1-F7  
 <400> 9002

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 tgggtgtgtg cagcttctcc atggcgcggg tgcggcagct gatgcgggcc gaggacccca 180  
 ccatccgcc ttccagttag gctgtcttcc tcatcaataa ggcttcagag ttcttcttgg 240  
 ggaagtttgc agaggatgct tatcacaatg ccgcgaagga tcgtaagaaa tccattatct 300

acgataatct ttcaacagct gtttccagcc agaagactnt aaagttcctt tcagattttg 360  
taccgcagag agttgcagcc gaagatgctt tgaagacaat gacgagcaac aact 414

<210> 9003  
<211> 418  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-F8

<400> 9003

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ggcaatgata ctagctggaa gtgaatttat ggagaggggt cgcttccatg ttaaatacatg 180  
gttaccggca aggtctattg tcctggagtg tttgttatca aaaggaaaca ttgatccaag 240  
tggagaaatc ttgggttttg atagattctg cccgtggaaa cttcatttat ttgagcttga 300  
agaggagctg aagactgac ctctgaccaa gtatgtgctg tatcaggatg agaggagcaa 360  
gagttggcga gtccaagcag tcgcagttgc tcctgacagg ttcgagagcc gaaaggct 418

<210> 9004  
<211> 412  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-F9

<400> 9004

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tataagatcc agttttggaa tacaggctcg gcaggaaatg taaaacaga gtagctcggg 180  
ctccggtttg acgccaaga ctcagctcgc ggtggcagct gcagattctg cagggtgcca 240  
tcgtgacgca atactcgcgt tggcatcctt caacttgtct agccagagat tggatatcagg 300  
cagcagagac ggcgctgtca aagtgtggaa atagcttctc cagcatgggg taagattaca 360  
agtccacagg cgtgtacata ttttggcctg tctagtgtc atacagtaca ta 412

<210> 9005

<211> 180  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-053-Q1-K1-G1  
  
 <400> 9005  
  
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<210> 9006  
 <211> 413  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-053-Q1-K1-G10  
  
 <400> 9006  
  
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 ctttcttgtc tagccatcgc tatacaatgt agtgactgaa attaaattaa ctggccacag 180  
 ttttaataact ttgcttctga taaacctttg cctttctcca atttaattctt tttgcccctc 240  
 atccattttt cttcagatcc cttactatcg ctcatccca aattgttccc cctttaaaac 300  
 ggttccttac cctcattgtc tattggcatt acccccgtcg tgactcatta acttccgcgc 360  
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<210> 9007  
 <211> 425  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-053-Q1-K1-G11  
  
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 acctgtgtgt gcaggtgtct cacctgtgtg gaaaccacct gctgcaaagc ctgatggcac 180

cagtcagatt gctgctgggg ttaccagcca aaccaataac taccacaggg ccgacgggtca 240  
gaacaccgga aacttcctta cggaccgtcc ttcgaccaag gtccacgctg ctcttggcgg 300  
tggtctttcc ctgggatacc tgtttggtgg caactgatgc cgctcaccaa gctatcaccc 360  
cccactgtcg ccgcatgctt tttctgaatc gtgaacagcc gttgtcattt catgtgtacc 420  
caaac 425

<210> 9008

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-G12

<400> 9008

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tacctgctgc ctacccccag caatttcttc cattcaacca actggcagca ttgaactctc 180  
ctgcttattt acagcagcaa caactactac cattcagcca gctagctggg gtgagccctg 240  
ctaccttctt gatacaacca cagttgttgc cgttctacca gcacgctgcg cctaacgctg 300  
gcaccctctt acaactgcaa caattgctgc cattcaacca acttgctttg acaaaccag 360  
cagcgttcta ccaacaaccc atcattgggtg gtgccctctt ttagatttct tatgagttat 420  
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<210> 9009

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-053-Q1-K1-G2

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tagcaccttg cttggattca agggaggccc tgctgggata atgaagtga aatatgtgga 120  
gctcacttca gactttgtgt atccctacag aaaccagggc ggattcgata tgatctgcag 180  
tggaaggagc aagattgaaa caccggagca gttcaagcaa gctgaagaca cagccaacaa 240

gcttgatttg gatggacttg ttgtcattgg tggatgatgat tcaaacacca atgcctgcct 300  
tcttgtgaat actntangtc aaggaacctg aagactcgtg ttattgggtg cccaaagact 360  
atcgatggag atctgaaatg taaggaggta ccaacaagct ttggatttga tactgcttgc 420

<210> 9010  
<211> 420  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-053-Q1-K1-E9  
<400> 9010

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gggcgtctta gtgttcgttt ccaactccaga tccaattggc aacaagtact atcttggccc 180  
tgctcctctg caggatatgg caaggcaaat tgctacagcc aatggcccta ctggctataa 240  
tagggattac ctgttctcaa tggagaaggc attagccagc attagccacg aagatgattc 300  
gatcatagag cttgcaaacg aggtgaggaa ggtgctcaac agaacaagg agaccaagat 360  
cactggtgcc aatgcttcca tgaaatcaca tgcccctctt gtgcacctgt ccgcgctttc 420

<210> 9011  
<211> 416  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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accattctgt agttggcctc cgatcttgca tatctgaagg tgctatcata gaggacagtt 180  
tactaatggg tgcggactac tatgagacag aagctgataa aaaactcctt gccgaanaag 240  
gtggcattcc tattgggtatt gggaaaaatt catgcatcag gagagcaatc attgacaaga 300  
atgctcgaat tggagacaat gttaagatac tcaatgctga caatgttcaa gaagctgcaa 360

gggagacaga cgggtacttc atcaaagggtg gaattgtcac agtgatcaag gatgct 416

<210> 9012

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-D5

<400> 9012

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aaattatttg gtgataaaaa acaggataat gatcttaatg tgcactccaa agatgatacc 180

agttcaaaaa cagatgtttt tgaaaggagt gtagatgaag atcttgagca atacacccag 240

agaatatatg accacgtatt tgggtacaac attgaagttg cattggataa taaggaaact 300

tggaagaatc ggagaaagcc aaaccctatt tacattagag atgcattgcc tgaagacgct 360

gttcaacaaa atggctcgctc tcaggatcac gtgaatgagg agcaagatcc ttct 414

<210> 9013

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-D6

<400> 9013

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ctacgctttt ttttatttca gtgcgcgcgt gtctgtcca gacggtgctg ctgcgcccag 180

tccttgacga tgtgcggctg ctgaccgcac gacgaggtcg tggctctgaag gtagcgggtac 240

accacgcca gcacagccac cgcagccacg ccgaaccctc ccgacgaaac gatgcctacc 300

gtgagcagcg ccaccgtgat ggccgccggc accagcacgg ggctgaagat caccatcaat 360

ggcgtcgcca cgatgagcgc cagcaccggtg cccgtcaccg tcagccccga caacaac 417

<210> 9014

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-D7

<400> 9014

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tttactttct tatgatttct acacacggcc taataatctt gctaaggccc tgattgaatg 120  
gaaaatattt tttgggagtt ttaggaaaat actacatttt tgtg 164

<210> 9015

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-D8

<400> 9015

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ctcctgttcg agatggtggt ggctccatgt ttggaggaat tgggtccacc attgctcaag 180  
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cccgaccat ccagcatgag actcttgcca cagaagctcc tgctgctgcc cctgctgctc 300  
cagcgatgaa tgctgatgct tgcagcttcc attctaaggc tttccaagat tgtctcaaca 360  
actatggcag cgagatcagc aagtgccagt tctacctaga catgctgaac gagtgccg 418

<210> 9016

<211> 360

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-053-Q1-K1-D9

<400> 9016

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ttgctgcata ctctcaacaa catcaatttc tttcattcaa ccaactggct gcattgaact 180  
ctactgctta tttgtaacaa caattaccat tcatccatct agttgttgac taccacagc 240



aattttcttac attcaaccaa ctatcaacat tgaactctgc tgcttattta cagcagcatc 300  
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<210> 9017  
<211> 303  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-E1

<400> 9017

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attaaggcac ctttctattc tgggttgccc ttaactacct gtgaattggt accagtgggt 180  
acctcttggg gttctgtggt cccgcgatgt tgcagttggt tgcttgatcg aaagatgttt 240  
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gtg 303

<210> 9018  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-E10

<400> 9018

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ccctataggt gtaaaggaag gcagtcttgt tgggaagtat gaatctcttg ttcaggttac 180  
tgtcataccg aagggaagg agcaagcatc acggaagag aaagacttta cctctacctc 240  
accaagtggg gtaacggata agctacaaga ggtgcttaaa agagtaaaga gcacgaccag 300  
gcctggaatt tacgacgacc tttatgggga ttctattgcg acaaaagtgg gctcatcttg 360  
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catggattca aac 433

<210> 9019  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-053-Q1-K1-E11  
  
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 catacctgac atcaaaattt caagtttgtc agatgaagaa tacgaagagg aagaatgtca 180  
 agaccttcgg ctgctggcca agaatgaatc ctttaaaagg cctactgttg gggatctaga 240  
 ggagaaagca agaagtttac gtagggagat agtgaatcat tggatcagta aagaactcca 300  
 gaggctagaa agattaattg acagggcgag tgagaaaggt tggcgcaagg aaaagtttga 360  
 ataccttgat aagaaacaac tcttgcgcaa gccatctgaa caacaacgtt tacttg 416

<210> 9020  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-053-Q1-K1-E12  
  
 <400> 9020  
  
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 ctaaagggtcc atcgggagaa gaatatgcat ggtaccagtg cacagtgaat ggtggacgtg 180  
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 aaatacttct taactgcatt gattgtgatg gccaaggttg tggatttgac atagatttgg 300  
 ttaaaatggg ttctgatgct gtgacaatcc ctgtcattgc gagcagtggg gctggagctg 360  
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 ttt 423

<210> 9021  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-E3

<400> 9021

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cgcaccatca ccgtcaacaa ggccaatccc cgcggcggcc gtggaggcgg cggcggtggg 180  
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tacggcggtg gcaaccgtgg cggcggctac ggcaactccg acgggaactg gaggaactga 360  
tcggtggggc ccgcgcggcc aagttatcct gttcgctacc gtgatgttta ccct 414

<210> 9022

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-E4

<400> 9022

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aatacagttt tcaaggcaat gagaagacac agggttgagc ctgacctttg ctcttataca 180  
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aggattaaag aggatggtct gaagcccaac gttgtggttt atggcactct gatgaaaggc 300  
tattcaaagt taaataatct tgagaaagtt atgcctgtgt a 341

<210> 9023

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-E5

<400> 9023

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tgcgtgtcca ccacgaacag gaactttccg ggcaggatgg ggcacaagga agggcaaadc 180  
 tacctggcgt ctccctacac tgcggctgcc tcagccctga cggggtacgt tacggacca 240  
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 tgtactgctg tttttcgtgc tgaacttttg tctagggatg tccttcgttg agaaataaac 360  
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<210> 9024  
 <211> 366  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-053-Q1-K1-D3  
  
 <400> 9024

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 gccaatgctc aatcaactag ccatggtgaa ccctggcgtc taactaacia taccttcatt 180  
 taaccccgct ccgggtgggca atgcaactaa ctacctacca caacagttgc tgcaacaaat 240  
 tgtaccaact ctgactcagc tagctgtggc aaacctgct gcctacttac aacagttgct 300  
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 <211> 109  
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 <223> Clone ID: LIB3059-053-Q1-K1-B8  
  
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<210> 9026  
 <211> 403  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-B9

<400> 9026

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tcggcggcct cgcctggggc acggacgacc actccctcca caacgccttc agcacctacg 180  
gcgaggtcct cgagtccaag atcatcctcg atcgggagac gcagaggtcc cgcggcttcg 240  
gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc atgaacggca 300  
aggagctgga cggccgcaac atcacgtca acgaggcca gtcccgcggc ggccgtggag 360  
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<210> 9027

<211> 376

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-053-Q1-K1-C1

<400> 9027

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ggaatggttt tgatatcggg gagatgctta aggatgatgg aaagcgatcc acataatgca 180  
ngtggagccg acgctggcat gggacagccc tggatatctg atgagctgga ttcgagtgtc 240  
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gaaccggaca tgtttcttgc tggcttcgaa agcgtggtt tcgtcgaggg tcttgagcgg 360  
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<210> 9028

<211> 400

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-053-Q1-K1-C10

<400> 9028

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aaccgtctgt gttgcctcaa cagggaaaag aaccttctat gttgcctcaa cagggaaaag 180  
aaccttctgt gttgcctcaa ctgggaaaag aaccttctga gttgcctcag cagggaaaag 240  
aatcttcagg agatatctct gtgaatcaga aggaccctct taaggagatg aatggctttc 300  
ctgaacagga aaaaggactt gttgctggag aacttgtctc tgcacatcat aaggaccctc 360  
taatggatat tacagatgca tttgaaatga ntaaaaaaca 400

<210> 9029  
<211> 363  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-053-Q1-K1-C11  
<400> 9029

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaggccgcac tttttaaaaa ttcaaagttt 180  
acttacccat aattgcaact ttataacttt tttatagttt aaccaaattt aaattcattg 240  
accatatttt taaaacgtca ttattggaaa aaccttgtct ttaccaaatt aaatctcttt 300  
tcaaaaaatc ctcttttttc aattttactt attacccaaa atgcccaaac tcattacctt 360  
ttc 363

<210> 9030  
<211> 437  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-053-Q1-K1-C12  
<400> 9030

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gaatcatgag attttgtatc atttgcagga tgtctttaat ctccttccaa atctgaacgt 120  
aaatgagcta attaaagcct ttgcagtga aacaaacgac atgatgttgg taatatatct 180

gtcttctctg atccggagtg tcattgcgct tcacaatttg atcaacaata agatgctaaa 240  
caaggagcat gagaaggctg aggattcgaa accagccgcc attccaactg ctgccggtgg 300  
agggggagct aatgaactt ttgatcactt attgatggcc aagaaaaagg aggaaacgtg 360  
attgcatgtt tatcacggtt gtgctggaac caaatcgctt tgacctgaa tggatatttt 420  
catggttact tcacgta 437

<210> 9031  
<211> 282  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-C3

<400> 9031

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cgagcgccat gttccagccg ctccggcaac agtgctgccg gcagcagatg aggatgatgg 120  
acgtgcagtc cgtcgcgcag cagctgcaga tgatgatgca gcttgagcgt gccgctgccg 180  
ccagcagcag cctgtacgag ccagctctga tgcagcagca gcagcagctg ctggcagccc 240  
agggtctcaa ccccatggcc atgatgatgg cgcagaacat gc 282

<210> 9032  
<211> 348  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-C4

<400> 9032

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tcatcgagcc gtttgccacg cctctagagc agtgagcaac tgaacgtcgt gtgttgcat 180  
ttggataaag attttgacac ggatacctgg aactctggaa gggtttattgg ttctctatgt 240  
cggaaggatg gttctttcat gccacaaga tgttctgtag attttagcag agctggatga 300  
agcatatcgg aagggggcag attgggtgga tgcagtatcc accgagcc 348

<210> 9033  
<211> 412  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-C5

<400> 9033

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tgcaaccgcc actagtgcta cccatatccc agggcacttg tcaccactac tgatgccatt 120  
ggctaccatg aacccatgga tgcagtactg catgaagcaa caggggggttg ccaacttgct 180  
agcgtggccg accctgatgc tgcagcaact gttggcctca ccgcttcagc cgtgccagat 240  
gccaatgatg atgccaggta tgatgccacc gatgacaatg atgccgatgc cgaatatgat 300  
gccatcgatg atggtgccga ctatgatgtc accaataacg atagctagta tgatgccacc 360  
gatgatgatg ccaaacatgg tttcaccaat gatgatgccg agtatgatgc ct 412

<210> 9034  
<211> 413  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-C7

<400> 9034

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tccattattc cacaatgctc acttgctcct agttccatta ttccacagtt cctcccacca 180  
gttacttcaa tggccttcga acaccagct gtgcaagcct ataggctaca acaagcgatt 240  
gcggcgagcg tcttacaaca accaattgcc caattgcaac aacaatcctt ggcacatcta 300  
acaatacaaa ccatcgcaac tcatcagcaa caacagttcc taccagcact gatccaccta 360  
gccatggtga accctgtctc ctacttgcaa cagcagctgc ttgcatccaa ccc 413

<210> 9035  
<211> 418  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-C8



<400> 9035

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gattcatcgt cgtcgccgac gatttggatg ctaccgcca cgattcggat gtcgcccgcc 180

tggatttggc ctccgccacc ctggatttgg cctccgcccgc tcccgattcg gcgctgccaa 240

ccccgaaatg gcgcccgcctt ttcccttcc ccttccccta tgtcatcttg ttgattctta 300

cctaggcggc ggggacgcct tgatctttc gggcgtctga acgcctaggt gacgccttta 360

aaacaggggg gaatttggtc ccacatatta cttgcagtca aagatcgaca acttagtt 418

<210> 9036

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-D1

<400> 9036

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tggcttgtgt ctcaagggat ctcatcggtt actggttctt tgaagggtcga tgggtgccctc 120

aatggggatg tgaacgaatt ccaaaccaac ctggttccctt aaccgaagat ccacttcattg 180

cctctcctct acgcaccggg gatctcttct gcgaaagcct tccacgagca gctgtctgtg 240

gcggagatca ccagcagcgc gttcgagccg gcttccatga tgggtcaaag cgaccacagg 300

cacggcaagt acatggcttg ctgcctgatg taccgcccgc acgtgggtgcc caaggacgtg 360

aacgccgcgg tggccaccat caagacgaat cgcaccatcc agttcgtgga ctggt 415

<210> 9037

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-D11

<400> 9037

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ctgttaccgg caagaccgt atcctcgacg tgggtctaaa tgcataaac aatgagcttg 120

tgaggacaca aacccttggtg aagagtgcc a ttgtgcaagt tgatgctgcc ccattcaagc 180  
 agtgggtacct cactcactat ggagttgaca ttggtaggaa gaagaaaacc cctgctgcaa 240  
 agaaggataa tgctgagggg caagaggttg aggcagcagc tgaggaaacg aaaaagagca 300  
 accatgtcac gaggaagctt gagaagcgca aggaggggacg tacccttgac ccacacattg 360  
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<210> 9038

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-053-Q1-K1-B7

<400> 9038

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 cgggcgtgtg gctcggcgag ctctcgtcgg cgctgcatgg gacgtggcag gcggtggccg 180  
 tggccgccac ccacgggctc ggcgaggacg acgaccgcgg gctgccgtgc cagcagcagc 240  
 agaggccgtg gcgaggcgac gacaggagca gcagcaacaa caaggcgttg cgaggagccg 300  
 cggcgggccg gacggacagg cgggaggggg acgtcgcgag gtgcggcggc gccatgtccg 360  
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<210> 9039

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-D12

<400> 9039

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 tccgcaagat ggccaaggct gtgaaaaacc aggttagtga caactactac aggcctgatc 180  
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ccggtgtcaa gaagaagaac aggcagtcct aagcgctaag tttgtgttct gtcagggggc 300  
atgttggtgc tcgtagtccc agcttatatt tatctatgtt ccaacagttg agacttggtta 360  
gaactgagca aaccatgtta agatgctgct gtgtgtcatt ccttaaaaaa attgccttgc 420  
actt 424

<210> 9040  
<211> 296  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-053-Q1-K1-D2  
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ctaatacctcg aaccgccgtc ctgtctccgt gctcgcgget gccagcgcca gcgccgttac 180  
cttctgcgtg ccgggggtggg ccatcccgca caaccgctc ccgagctgcc gctggtacgt 240  
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<210> 9041  
<211> 419  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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gttcaaacat cactgcctta tggagcgtaa gaaattaggc actggccaga gtgagcaaat 180  
gaactcactg tatcgcttct ggtcatacta tctgagagat aattntaatg aagatatata 240  
caaggatttt aagaaactcg cactggagga tgctgcagcg agctacagat atggtctcga 300  
gtgtctattc agattttata gttatggttt ggagaanaaa ttccaacca atgtatatga 360  
agatttcgag aaacttaact tcgaattcta ccgtaatggt gatctttatg gactcgaaa 419

<210> 9042  
 <211> 396  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-A3

<400> 9042

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cgaccaacat ggagcagcag cagctacttt caactccgta tctggaacat ccatgtctgc 180
acctcacctc agcggcatcg cagctgtcat caagagcgca caccctgact ggtcgccggc 240
ggtgatcaag tcggcgatca tgacgacggc ctatgtcgtg tatggtaaca aaaaaacca 300
gccgatctta gacgagcagc tcagtcggc gagccatttc aacgttgggg cggacatgt 360
caacccttcg caggctgtga gccaggcct ggtgta 396
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<210> 9043  
 <211> 392  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-A4

<400> 9043

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caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac 180
caactgtcta cactgaaccc tgctgcttat ttgcagcaac aacaactact accattcagc 240
cagctagcta ctgcctactc tcagcagcaa caatttcttc catttaacca attcgccgca 300
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acaagccccg cttccttctt gacacatcaa ca 392
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-A5

<400> 9044

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agctcctata gcttcctttc ttccccata cctctcacca gcggtgtctt cagtatgtta 180  
aaaccaatt cttcaaccct acaggatcca acaggcaatc gcagcaggca tcttaccttt 240  
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<210> 9045

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-A6

<400> 9045

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tacatttgat tactgtttta accttgtcta tcaactgact cttaatccta caaaccacca 180  
aatttcaatc taccttaata ttacattaat agcatctcag gctaacaccg ttgcggactt 240  
gccaaccctt gctcacctg aattacattt gctacactcc atttaccttt gcatca 296

<210> 9046

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-A7

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tccatccagg agatgttccg gagggtgagc gagcagttca ctgccatgtt caggaggaag 180  
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agcaacatga acgacctcgt gtcggagtac cagcagtacc aggacgcgac tgccgacgag 300  
gaggagtacg aggacgagga ggaggtgcag gccgatgaca tgtgagggga gggctgttat 360  
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<210> 9047  
<211> 418  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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ggggcgcggg cagcttgtaa gcgttcgatc ggccatgtag ggcaactata catctttggc 240  
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tgtatgtgta tgcccagggc gcgcgcgcgc ggctctgggc gagtcacagt agagatgcaa 360  
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<210> 9048  
<211> 134  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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aaaaacataa ataa 134

<210> 9049  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-B10

<400> 9049

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gcaatttaca gaagattacc ccaacaaacc tccaactgtt cggtttggtt cgaggatgtt 360  
tcatccaaac atctatgcgg atggaagcat ctgtttggac atctctacaa accagtggag 420  
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<210> 9050

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-B11

<400> 9050

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gaaaatattt tttgggagtt ttaggaaaat actacatttt tgtg 164

<210> 9051

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-B12

<400> 9051

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gcggcctcgc ctggggccacg gacgaccact ccctccacaa cgccttcagc acctacggcg 180  
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gacctgtcct gacacaccct cgcccggatc tgtccctcct tcccttctcc cctgcagatc 300  
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gaagcgatgc ggaacgccat 380

<210> 9052  
<211> 393  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-053-Q1-K1-B2  
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aacgcaactg cgggcgggtg ctactactga agaaactatg tactgtagta ataataat 240  
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aaggaataat atatattgaa aaaggatgtt tgg 393

<210> 9053  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-053-Q1-K1-B4  
<400> 9053

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gtcatgcttt aagtctgaga caattttatg aacattccta ggtacaatcg aagttaccag 180  
tgcc 184

<210> 9054  
<211> 410  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3059-053-Q1-K1-B5

<400> 9054

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cctcaatact cacaagctcc tatagctgcc cttcttcccc cataccttcc atcaatgacc 180  
gcttcagtat gtgaaaaccc agcccttcaa ccctacaggc tccaacaagc aatcgcaaca 240  
agcaacttac ctttatcacc cctgttcttt caacaatcgc cagccctatc tttgggtgcag 300  
tcattggtac aaaccatcat ggcaacaacag ctgcagcaac tcgtgctacc agtgatcagc 360  
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<210> 9055

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-B6

<400> 9055

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atcatgctgt acccctaccc ggagtacctg acgcagccgc tgtgcaaccc gctgtccgcg 180  
gcgctctact acgcccgggtg ctaccagccg agcgccatgt tgcacgcgat gcggcaacag 240  
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<210> 9056

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-A12

<400> 9056

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gaaccaatcc gcgagcgtgt gggcggaac cgcaagcctc ctggcgggtga gagcagcatc 240  
gcgctgattt agcataatcc gggactcagt gtcgaccct agaggaggat ttccaccagc 300  
accaggcagc aggctgttgg atcgtcagtt tgggtgtcttg ttctgatca aggtgcggca 360  
gtgaagagcc ccgttttagt cttgatgatg tttattaact gttggtgtgt gcatgtttg 419

<210> 9057

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-G9

<400> 9057

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cgcatataaa agaacttatac tggagggaaat ctttagcatt taaccggat cctccctact 180  
aatatcaaaa ggatgatgag ttatctgcta gacgcatatg aagatctcta gctccagcgg 240  
acgcaagaac ttatgtcagt gtcagtgtgc gttgattatt tacgtgcggg ttgttgggca 300  
tgcgggcatg ggttgggtgt gcaatagcaa ctctattatg gcttgtgaga gaaacaaac 360  
gtctgtattc attttcaggt gcctgaacc aggcttgtat tataccgctt gactccataa 420  
attattc 427

<210> 9058

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-H1

<400> 9058

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aatgttcgat cccacttggg aattcatctg cgcggaag ttcggcctcg accacccta 180

cgtaaccca atggcatcgc cggaggagtg gaggcagctt gggtcccgc gcgtgctggt 240  
gaccacggcg gaccagtgct gggtcgtgga gagggaagg gcttacgcag agggaatcaa 300  
gaagtgcggc tgggaagggg agctcgagtt ctacgagacc aagggtgagg cgcacgtctt 360  
cttcttgctt aaacacggca gcgaaaaagc cgt 393

<210> 9059  
<211> 420  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-H11

<400> 9059

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acttcaggag gttgaagact ggctctatga agatggcgag gatgagacca agggagttaa 180  
tattgctaaa ctagaagaac ttaaaaagggt tggatgacct attgagggtgc gcttcaaaga 240  
atgggagatt agaggttctg ctggttagcca actgctatac tgcataaaaa gcttcagaga 300  
agctgcactg tctaaggacc agaagtttga acacatagac atgtcagaaa agcaaaagggt 360  
cattagcgag tggttcggaag cagagacttg gctaattggag aaaaggcagc agcaggatgc 420

<210> 9060  
<211> 439  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-H3

<400> 9060

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gactaccctt ggaatgagtt ctgcagcatg gtgcacaaga tcttcgtgta cacgaggagg 180  
gaggtccagc gcatgaacct gggcgccctg aactcgaggc cggaggacag cggcctcgcc 240  
aattcgacgg agaggggctc cgcacttact gctgctgcta gagaagcacc cggctaccag 300  
tccgtctcgt cgcttaactt cgacaactgc tgatgccttg gcagctaact tgcctccca 360

agtagtagaa gaccaggcat atgtatccat agatctcctt gtagcggaac ctaatgcctt 420  
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<210> 9061  
 <211> 427  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 ctaggttcca ggaagctctt attgttgctg aagcatacaa cataaatcaa cctatagaat 180  
 gggccccagt cttttggaat caaatgctaa aaccggatct aatcgagcaa ttcgtggctg 240  
 agtttgtctc agtgctgccc ctgcagccac caatgcttct cgagcttgca aggttttaca 300  
 gggcggaggt tgcagccagg ggggagcagt cacacttctc tgtctggctt tcacctggag 360  
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 caaggga 427

<210> 9062  
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 cacctggtgc tccgcttgcg aggtggtatg cagatctttg tgaagacctt gactggcaag 180  
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 gacaaagagg gcatcccccc agaccagcag cgtctgatct tcgccggcaa gcagctggag 300  
 gatggccgca ccctatcaga ctacaacatc cagaaggaga gcactctcca cctggtgctc 360

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g 421

<210> 9063  
<211> 415  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-052-Q1-K1-H8  
  
<400> 9063

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ccgtgttcga tgagaagggt ctgagcaaag taccagggg tcctgcgaaa gacaagaagc 180  
actagatgca agtgattcga ggtccctgtt agtagggaat gctagcaaaa ccggttcgag 240  
tttctccgga ggggcagcac ttgtgggtgt gagcaccagt ttgccacctg tgcattacgt 300  
tgcgatggc tgcttagttg tttggtcttg atgggagtaa gccgaattgc tagctttgcg 360  
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<210> 9064  
<211> 411  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-052-Q1-K1-H9  
  
<400> 9064

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gcactcgtgg accttctggt tcgacaacct gcacggcaag aacaagatgg ccgcctgggg 180  
gagctccata cgacccatcc acaccttctc caccgtagag gacttctggg gcctctacaa 240  
taatatccat caccctagca agttgatcgg cggagctgac ttccattgct tcaagaacaa 300  
gattgagcca aaatgggaag atcctatttg tgctaattgg ggtaaattga ccatcagctg 360  
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<210> 9065

<211> 402  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 aacagggtca caatcttgac tgacaagttt ggacagccaa aaggttttgc ttatgttgaa 240  
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 tca 303

<210> 9067  
 <211> 408  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-052-Q1-K1-G6  
  
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 aaggaccaga agtttgaaca catagacatg tcagaaaagc aaaaggatcat tagcgagtgt 180  
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 tgcaagccga tcatgacgaa accgaagcca gtctctaagc cacagactcc gcctccggca 360  
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<210> 9068  
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 <213> Zea mays  
 <223> Clone ID: LIB3059-052-Q1-K1-F12  
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agaaccagac cagaaggaag ggcttgggaa ttttcaatta agctggaaaa acttaaaggt 180  
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 ggtatgatgc tgataactgc attgagtcct tatgcaaact ggcttcaagg ctatgctgat 300  
 gttctcctgc aggttaaagg cactgttgat cagcctgttg ttgatggatc agcaacgttt 360  
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<223> Clone ID: LIB3059-052-Q1-K1-F5

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 ctactataac aaacattaat ttcattacac tctccctcct ttctacaact tcctctctta 180  
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 <213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-F6

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ctggacggcc gcaacatcac cgtcaacgag gccagtcgc gcggcgccg tggaggcggc 360  
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<211> 416

<212> DNA

<213> Zea mays

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gtcccttggc tcggagggtc atcaaggacc tgatggcgcg tggcctcatc cggtttgtct 360  
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<210> 9073

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-F8

<400> 9073

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cggcggtctt catggccaac cacttcgacc gccactactg cggcaagtgc ggcctcacct 180  
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ttaaatggag cagtagtata tgtcatattg gtaccctgt tactgaattg atgtgatgct 360  
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 <212> DNA  
 <213> Zea mays  
  
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acctgtgata aaccaagtag ctctggcaaa cctttctccc tactctccgc aacaacaatt  180
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attggccgca ctgaaccccg ctgcttattt gcagcagcaa atactactac catttagcca  360
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 <213> Zea mays  
  
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gcaaagtctt actcaaaggg aatcaataaa ttcggctggg atggggagct cgaattctac  300
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<400> 9076

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<210> 9077

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-G11

<400> 9077

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tctgagggtga atagaaaaat tctaagaagg tgggtggttga aaactgaaca aactggagta 240

ctaaggcaac atgcaggaat ttggaagctc aaaacacatg tgattgaaga cttggtgaaa 300

gagtttggtg gttatgatct gattatcggt gggaattata cttcttgcaa aggtggtact 360

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<210> 9078

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-G3

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aacttaattt tcacatctgt atgattaaaa gagattcatc aattggtact gaagtgttgt 180

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<210> 9079

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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-052-Q1-K1-G5  
  
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tttgtggcag cagagtatga gactccacag aatgctttga atcaagtttc cctttgggat  420
ggcattat                                         428
  
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<210> 9081  
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 <213> Zea mays

<223> unsure at all n locations  
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acatcccgcg gcaccctgca gttaccctcg ctagctatcc ccaagttcag ccatcaattg 180  
tatctcatcc ctcttcttgg gaaagaattg gttagcgacac attagctacc gacatgctat 240  
tctttgcgtt ctattaccag cagaacacat atcaacaata catggctgct agagaattga 300  
agaagcaatc gtggagattt caccggagggt acaatacctg gttccagcgg catgtggagc 360  
cacaggttac gactgatgag tatgagcggg gatcatatgt atactttgat ttccatgt 418

<210> 9082  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D6

<400> 9082

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gaaaccaagg agaggccact ggtgcttcgt aataagccgc ctaggtggca cgaacagctg 180  
cagtgttggt gcctcaactt ccgtggccgt gtgacaattg cctcggtgaa gaacttccag 240  
ctgatcgccg cggctacccc gccaccggca ggtgcgccaa cccctctca gcctgccccg 300  
tcagatcccc acaaggatgat tctccaattt ggcaaagtgg caagggatat gttcacgatg 360  
gactatcgct accctctctc ggctttccaa gcctttgccca tttgtctgag tagctttgat 420  
acaaagttaa cctgtg 436

<210> 9083  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D7

<400> 9083

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acaggtctgt cccgctgaag ttggcagtca agcaggcatt ggatgttgca cgtggcatgg 180  
cctatgtcca tggccttggg ttcattcata gagatcttaa gtcggacaac ctctgattt 240  
ctggtgataa gtccattaag attgctgact ttggagtggc taggattgaa gtcaagactg 300  
aggggatgac acctgaaact ggaacatacc gctggatggc tcctgaaatg atccagcata 360  
ggccatacaa ccagaaagt gatgtctaca gttttgccat tgcctgtgg gagttagtga 420  
ctgggaatgt ccc 433

<210> 9084

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D8

<400> 9084

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tggattggct ggggcagaag cgcgcggaaga tgctgatgca ggtgctgctg gtggcgtctg 180  
ctgtggcggc gttcctgggt ggctacgtgc gctcggactt ccagctcatg ctgctcgtct 240  
acgccggcgg cgtcgtgctc acagcgtcgc tcaccgtccc caactggccc ttcttcaacc 300  
gtaacccgct taagtggctc gacgctgccg aggccgagcg ccaccgcgc cccaggtca 360  
gcgccggtgc ggcagcaggg ggaaagaaga agtccgggaa gaacaagtaa tcgatac 416

<210> 9085

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D9

<400> 9085

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cggcggcgaa gaagccgaag ttggaggagg ccaaggaggc ggagaagggg agggtagagg 120  
 agacggcgga ggggaagaca caggaggcaa atgaggagaa ggcagtggag gcggaggaca 180  
 agcctgtgac agaggaggca aatgagaaga aggcagttga agcggaggga aagcctgtga 240  
 cacaggaggc aaatgaggag aaggcagcgg aggcggaggg caagcctgtg aagctggggc 300  
 ctaaagaatt cgcctcggcc atcgatatgt tcaactactt ctacgctctg ctccactcct 360  
 ggacgccgca gcttgagttc aataagtatg aacaaatggt gcttgaggat ttgcttaag 419

<210> 9086

<211> 390

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-052-Q1-K1-E11

<400> 9086

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 tgctcacttg ctctagtgc cattattcca cagttcctcc caccagttac ttcaatgggc 180  
 ttcgaacacc tagctgtgca agccaacatg caacaacaag cgcttgcggc gagcgtctta 240  
 caacaaccaa ttgcccaatt gcaacaacaa tccttgccac atctaacaat acaagccatc 300  
 acaacgcaac agcaacaaca gttcctacca gcaactgagc acctagccat ggtgaaccct 360  
 gccgnctact tgcaagagca gctgcttgca 390

<210> 9087

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-E12

<400> 9087

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 gaacatttgg ctaccttgca ccagagtata tgcaatttgg cagagccacc gagaagactg 180  
 atgtctacag ttttgggggtt ttggtactcg aaatactcag tggaaagcgg cctactgatg 240

catccttcat tgagaaggga ctaaacattg ttggatggtt aaattttctt gctagtgaga 300  
accgggagag ggaaattgtc gacctgaact gtgaaggagt gcagactgag accttagatg 360  
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acaaggtg 428

<210> 9088  
<211> 432  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 9088

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tgacctccct cagaagctac aaaacctgat tgaagaacgc aaggggtggac aacggggcgg 120  
ccatcaagtg ttggtcaaac aaatggccac ctcatgtctg aaagcgctgc acatcaatac 180  
agtattgtga ttttgatggg tcatgtgttt tcctctcaag ttagtggtta cgttttcgct 240  
agaggaagaa aaggggctgc cttctctttn tgccctcttt tctgctgtgg tgggcttctc 300  
acgagcacca gactcatttg ttgtacctga tccctccttt tttgggagaa aggttcaacg 360  
ttttggtgca ggataaaatg ggcttgctat cctccagtgc tgtttatatc tagcgtatgt 420  
tagtgaagaa at 432

<210> 9089  
<211> 401  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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gcagcttccc tccctctcct ctccggcccc gcttacctaa cccggcccct cctacgcccc 120  
cccttccgcc gtcgcacgat gagcacctct ccggcgggcg tcgtgcaacg cgcttgccac 180  
cgcgtacctg ccgtcgctgc tggccccgga ccacgcggtg gtggaggagg acgacgagga 240



ggcgcgggac gacgaggacg aggacgaggg ccagcacggg cgcgggcgggc tcaggggcag 300  
gaggccgtcc acgttcccggt ccccgcggt gatcgcgac gccaccgtcg gccagatggc 360  
gagggcccg tegtctcggt ccccgaggtc cttctccatg a 401

<210> 9090

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-E6

<400> 9090

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ctgcagggt gtcactgctt cttctttcag cgaagtactc tegtgggacc ttcattctcc 180  
ccggcgcgca gcccgcgcca caccgcagct tctcggagga ggtatctgtg ctgaacgctt 240  
tctttggtaa cctcaagctc ggtggcaatg cctacctgat cgggtgaaccg ttcaagccca 300  
acaagaagtg gcatgtctac tacgccacag aggagcctga gcgtcctatg gtgacgcttg 360  
agatgtgcat gacagagctt gacgttaaga aagctgctgt gttcttcaag aactccactg 420  
gtggc 425

<210> 9091

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-E7

<400> 9091

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gttaatatcc ttgaaaatat ggactagact ggttatgttg gatcagatgg cacctttggg 180  
tgatgaaagc tggaggtcaa agtttgagag agttagagac gatggcttct cccgtttaa 240  
gggtctgtgg gtcctccatg aaattataat gccgatcgtg accaagctcc ttactgctct 300  
ctgtgtccca tacgtccttg caaggggcat cttcccgttg ctgggttacc cactcatcgt 360

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<210> 9092  
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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-052-Q1-K1-E9  
  
<400> 9092

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ctacccacc cctcgaattc cttccagct ctggctactt cctacgccac caccgcccgc 180  
tccggcctcg gtcctcgag caagctgcc tggctgccgc cgcgctgagg gagcaactca 240  
acgtctctct ctctccatg ttgcctcgg gtctggtgga cgagcagttc cagcagctgc 300  
agatgctgca ggaagacggg ggcacgccgg gcttcgtcgc cgaggtcgtc accctcttct 360  
gcgacgacgc cgacaggatc atctccgagc tcgccgtctt gcttgaccag ccca 414

<210> 9093  
<211> 405  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-052-Q1-K1-F10  
  
<400> 9093

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ctgcgaggcc tgcgccagg ggatcaggaa gaggatcctc aagatgaaag gcggtcaatc 120  
tgcagagcca gacctcaagg cgtcggaggt ggcagtgaag ggcgtgttcg aggagtccaa 180  
gctggcggag tacgtgtaca agcgcaccgg caagcacgcg gccgtcgtca agtccgagcc 240  
ggtcccggcg ccaccgccgg agagcggcgc cggcgacaac acgggggcca aggaggagga 300  
gaaggggcag gaggaggaga aggagaagga aggaggaggc gatggcggtg gcgaggagaa 360  
gaagaaggaa gggggcaagg aggaagagaa gaaggactgc gagaa 405

<210> 9094  
 <211> 408  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D5

<400> 9094

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gaaaccaagg agaggccact ggtgcttcgt aataagccgc ctaggtggca cgaacagctg 180
cagtgttggt gcctcaactt ccgtggccgt gtgacaattg cctcggtgaa gaacttccag 240
ctgatcgccg cggctacccc gccaccggca ggtgcgcca cccctctca gcctgccccg 300
tcagatcccc acaaggtgat tctccagttt ggcaaagtgg caagggatat gttcacgatg 360
gactatcgct accctctctc ggctttccag gcctttgcca tttgtctg 408
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<210> 9095  
 <211> 393  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-C1

<400> 9095

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aatgatgcaa ctctttatgc ctgtttctca gcatatcctt cttgttctga tgctcgagtc 180
atgtgggaca acaaaactgg acgctccagg ggttatgggt ttgtctcctt ccgtaatcaa 240
caggaagctg aaactgctat aactgaaatg actggaaaat ggcttggaag cagacaaata 300
aggtgcaact gggcaacaaa gaacaattcg gaagagaaac cagaaactga caatcataac 360
gcagtcatac taacaaatgg tagcttcaac aat 393
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<210> 9096  
 <211> 401  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-C10

<400> 9096

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ggttcacctg ccacctccgg tgcattctcc accgcgggtc cacctgccgc cgccgggtcca 180  
cctgccaccg ccggtccatg tgccgccgcc gggttcattg ccgccgccac catgccacta 240  
ccctactcaa ccgccccggc ctacgcctca tccccagcca caccatgcc cgtgccaaaca 300  
gccgcatcca agcccgtgcc agctgcaggg aacctgcggc gttggcagca ccccgatcct 360  
gggccagtgc gtcgagtttc tgaggcatca gtgcagcccc a 401

<210> 9097

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-C11

<400> 9097

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taggagtata atcgtcatat cgatcggttg cgtgtggaat gccaatcatg tgtgtaattc 180  
gttgccaaat aacaaacctc tgttcctccc tgctgctgtt gtccgtgcga tcatgattca 240  
gaactggcgt gggcgccaat aactcagaag agagacttgc tgtatatgca tgctagtatg 300  
cattgtccct ctcttgtaaa tgcttgtaat cgaactttat tatgaaaacc aaaacgagaa 360  
tccaacc 367

<210> 9098

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-C12

<400> 9098

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tactcaagtg tatgggttct atgacgaatg ctttaaggaag tatggaaacg caaatgtctg 180  
gaaaaccttt acagatctat ttgattactt ccccttgact gcattggctg agtcagaaat 240  
atTTTgcttg catggTggat tatcgccatc cattgagacc ctcgacaaca tccgcaactt 300  
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agatgatcgg tgtggttggg 380

<210> 9099  
<211> 136  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-052-Q1-K1-C3

<400> 9099  
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cctttcatac cttgcttcat ctaattaccc atatttcatt aatcttacac tgcattaact 120  
caaatctccg actaac 136

<210> 9100  
<211> 347  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-052-Q1-K1-C4

<400> 9100  
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cgatcttctt ctactatct atgttcaccc tcttacaact tctacaattt cttccattca 180  
accaacttgc ttttacaac ccatcatctt tctaccaaca acccatcatt gctggTgcc 240  
tcttttagat ttcttatcac ttatagctca atactaaagc ttcttgtctt atatttactg 300  
cttcttatat attatccatt ccatttctaa tcaacttttc tctcaca 347

<210> 9101  
<211> 334  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-C6

<400> 9101

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tataaaacaa ccaaaattca attcactacc catcatttaa caacaacata acaataaaaa 180  
accctttcat aacccaacta aatcacctta caccacatcc ccctttctcc aactaaccaa 240  
aaaacaaaaa aaccacacacc aatcacctt cccaacaatt acccaaccta aataacaaat 300  
aaaacacacc ctaaaactac acataaaacc caac 334

<210> 9102

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D1

<400> 9102

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tgctgcctac cccagcaat ttcttcatt caaccaactg gcagcattga actctgctgc 180  
ttatttacia cagcaacaac taccaccatt cagccagcta gctgatgtga gccctattgc 240  
cttcttgaca cagcaacagt tgttgccgtt ctacctgcac gctgcgccta acgctggcac 300  
cctcttacia ctgcaacaat tgctgccatt caaccaactt gctttgacaa acccaacagc 360  
gttctaccaa caacccatca ttg 383

<210> 9103

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D10

<400> 9103

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agaatcgata tgatttatcc taaaagaagg tgttaagatg atgggacatg gctttcaaaa 120

ctttcagctg ttgcctgctg gtagccaaga cacactgaat ccgaaggaag gcgttgaagg 180  
 gtagctgtta gtgattttgt gatataaaga gtactggggc agttagcatc ggcattttta 240  
 gcggatttaa gttcttgta tgtatatctg tcttctgtct tcatcagtag tgctgcttag 300  
 tacctcactc tctcgtcagc aggatatttc tataatattgt ctgtacttgg tagatatatg 360  
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<210> 9104

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D12

<400> 9104

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 ctccgtgctc gcggctgcca gcgccagcgc cgggacctcc tgctgcccgg ggtgggcat 180  
 cccgcacaac ccgtccccga gctgccgctg gtacgtgacc agccggacct gcggcatcgg 240  
 gccgcgcctc ccgtggccgg agctgaagag gagatgctgc cgggagctgg cggacatccc 300  
 ggcgctactgc cggcgcacgg cgctgagcat cctcatggac ggcgcgatcc cgcggggccc 360  
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<210> 9105

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D4

<400> 9105

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 cgactcctaa ccgaaactgg ttcagctcta cgattgttcg acataacgac tggaactaat 180  
 gttactcgat caaggcttct ccagtgaca gctacatgtg atctgtagct cgtgcagcct 240  
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327

<210> 9106

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-B9

<400> 9106

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acggaaagga attgtgcaag agcatcaacc ccgacgaggc tgtggcgtac ggcgccgctg 180

tccaggctgc catcctcagc ggcgagggca acgaaaaggt acaagatctg ctctgctcgc 240

acgtcacgcc actgtctctc ggcctggaga ctgcaggtgg cgtcatgacg gtgctgatcc 300

cgaggaacac caccatcccg accaagaagg agcaggtctt ctccacgtac tccgacaacc 360

agccggggcgt cctgatccag gtgtacgagg gtgagcgcgc gaggaccaag gacaac 416

<210> 9107

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-A5

<400> 9107

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atcctggcat gcacagtgtt ggtgctgtga tgccaccttc atatgagatg ggagggatgc 180

caatgagaga agctgcccc caacctgttc caattggggc gctagccact gcacttgcta 240

acgccccacc agatcagcag agacttatgc ttggtgagaa cctgtatcct cttgttgaac 300

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aggttcttca cctgctggag tcgccagatg ctctgaaagc 400

<210> 9108

<211> 421



<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-052-Q1-K1-A6  
 <400> 9108

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gacctaacta ctaacaggga attgccttct cagatggatc tcgacatcac tgatgcagag   120
acaaaaaggt ctaatgcggt ctggaaaaat cttgagctcg caaccatgaa attgtcccaa   180
gaactggcag agcaattgcg cctgggttatg gaaccaactc ttgctagtaa gcttcaaggg   240
gattatagaa ctggaaagag aataaacatg aagaaggtta ttccatatat tgcgagtcac   300
ttccgcaggg acaagatatg gttgcgccga actaagccta ataaacggaa ttaccaagtg   360
gttattgctg ttgatgactc tagaagtatg tctgagggca aatgtggaaa atttgctatc   420
g                                                                           421
  
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<210> 9109  
 <211> 428  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-052-Q1-K1-A8  
 <400> 9109

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tcgggcttcc acaccgtgat gctaccgacg acaaagtcac agtggaggct gcggaggcca   180
cactcaagta caatgtggct atcaagtgtg ccaccattac accagatgaa gcaagggtaa   240
atgagtttgg cttgaaggct atgtggaaga gcccaaatgg cacaattagg aatattctga   300
atggcactgt gttcagagaa ccaatcatct gcaaaaacat cccacggctt gttccagggt   360
ggacaaaacc catttgcacg gggaggcatg cattcggtga tcagtaccgg gcaactgatg   420
cagttatc                                                                           428
  
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<210> 9110  
 <211> 388  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-A9

<400> 9110

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cgcaagctcc tatagcttcc cttcttcccc cgtacctctc accagcgggtg tcttcggtat 180  
gtgaaaaccc aattcttcaa ccctacagga tccaacaggc aatcacagct ggcacattac 240  
ctttatcacc cttgttcttc caacaatcat cagccctatt acatcagtta cttttggtgc 300  
atttattggc acaaaacatc agggcacaac aactacaaca acttgtgcta acaaaccttg 360  
ctgcctactc tcagcaacag cagtttct 388

<210> 9111

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-B1

<400> 9111

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agaagaataa ccttcagcaa cctgtttgtc cgtcgggctg gcccaggcag cacggagctg 120  
accgtggagg gaaggccatc cgaccagctg ggcaggagaa acctcactga cagccccgta 180  
tttgacggcc gtggccctga cgccagcctc gtggctcgcg tacagggagt cgctaccag 240  
atgggcgacg tgcgccagtt gtacaccgtc gtgttccagg agaggccgct caagggtcc 300  
acgctcgta cgaaggcgc gatgacagaa gggtcagacg agtgggcat ctacggtgga 360  
actggagtgt tcgcgatggc gagaggcgtc ataaggagaa cgtttcttgc cgacacgagc 420  
cggc 424

<210> 9112

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-B10

<400> 9112

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 agacagagga gggctgggaa tttcaattag ctgaaaaact taaagggtta agttataaca 180  
 tgctagaacc aggtgaagtg aggatagatg cagatataaa ggatgggggt atgatgctga 240  
 taactgcatt gagtccttat gcaaaactggc ttcaaggcta tgctgatgtt ctctgcagg 300  
 ttaaaggcac tgttgatcag cctgttgttg atggatcagc aacgtttaac cgggctattg 360  
 tgaactctcc ttttcttcgg acaccattga caaatTTTgc gggTacaatt caagtcatat 420  
 tcaacagac 429

<210> 9113  
 <211> 390  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-052-Q1-K1-B12  
 <400> 9113

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 cgagccaggg gtcgaaggcg aggagatcgc gccgctcgcc aaggagaacg tggccgcgcc 120  
 ctgaagagtt cggcctgcag ggcccctgat ctgcgcgctg gtgcaaagat gttgggacat 180  
 cttcttatat atgctgtttc gtttatgtga tatggacaag tgtgtgtagc tgcttgcttg 240  
 tgctagtgtg atgtagtgtg gtggtggcca gtggcacaac ctaataagcg catgaactaa 300  
 ttgcttgctg gtgtagttaa gtaccgatcg gtaattttat attgcgagta aataaatgga 360  
 cctgtagtgg tggagtaa atccctgct 390

<210> 9114  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-052-Q1-K1-B2  
 <400> 9114

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gtgtggcaaa agtgaagaac ctctacaaag aacttgacct agaggcggta tttcaggagt 180  
acgagaatga gagctacaag aagctgattg cagacattga agcccagcca agcattgcgg 240  
ttcagaaagt gctgaaatcc ttcttgacac agatctacaa gaggcagaag taggggtgctc 300  
ttggataaac gagctcagga gtcgttactc cttcgcatgc ttgacataac cggacttctc 360  
cacctgggtg ctctagtatg atgtggagcg tctagttaaa aaaaatcgat gtagtatgaa 420  
gcaccttgct gctctgaata ttaa 444

<210> 9115

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-B3

<400> 9115

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cgtcatcgtc gactccccct gcgtccgttc ctttggatct gaataagatg gtggtgatct 120  
gagtgggtgt cttagtttat catgtatcgc tcgcagttta atttagcggg ttaggtgtgg 180  
atctgtgaac cccatggcgc ctctgcttga ttcgtgtttc acctgttatg ttctgagatt 240  
catgataatg ctatgagaac tgaaattccc gtttcatgct 280

<210> 9116

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-B4

<400> 9116

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tagggtttgt taaatgttat agattccagg agacagaaat cgagcgttcg atcggcgcgt 120  
cctgtgattt ctgtcattct gagctatgaa catgtttgct ttaatcatgt tatcggattc 180  
agatgcatta attaatacgt ttggt 205

<210> 9117

<211> 433

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-052-Q1-K1-B6  
 <400> 9117

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 agccaaaata ttttgccctcc ttatgtcctt tggctcttct gcaagtgtctg ctacgacgac 120  
 cattttcccg caatgtctcac aagctcctat agcttctctt cttcccccat acctctcacc 180  
 agcgttgtct tcaagtatgtg aaaacccaat tcttcaaccc tacaggatcc aacaggcaat 240  
 cacagcaggc atcttacctt tatcaccctt gttcctccaa caatcatcag ccctattaca 300  
 tcaattacct ttggtgcatt tattggcaca aaacatcagg gcacaacaac tacaacaact 360  
 cgtgctagca aaccttgctg cctacgctca gcaacagcag ttacctttgg tgcaattggt 420  
 ggcacaaaac atc 433

<210> 9118  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-B7  
 <400> 9118

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 accctaagaa ctacggccct ggctcccgcg tctgccgggt ctgcgcgaac cctcacggtc 180  
 tgatcaggaa gtacgggctc atgtgctgca ggcagtgtt tgcgagcaac gccaggaca 240  
 ttggtttcat caagtaccgt tgaagaggcc actgtgctgc tgcggagaac ttctacatc 300  
 aaagaaatgg gtccttcatt agaaggccta atttatgcgc tttagctttt tggttcagaac 360  
 ttgagactca tgtgttaaac tcgacttggt aaagttttga tggctacttt gtgcttggtg 420  
 gaccagctat aatc 434

<210> 9119  
 <211> 321  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-B8

<400> 9119

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gccaccagtc atgccattgg gtaccatgaa cccatgcatg cagtactgca tgatgcaaca 180  
ggggcttgcc agcttgatgg cgtgtccgtc cctgatgctg cagcaactgt tggccttacc 240  
gtttcagacg atgccagtga tgatgccaca gatgatgacg cctaacaatga tgtcaccatt 300  
gatgatgccg agcatgatgt c 321

<210> 9120

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-A3

<400> 9120

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agtcgcaatg aatgtaacct attttgcacc cagtgtgaga ccaaaccagc tgctttctgt 180  
aactattgtc gttcaagtga tcattccacc caccgtgtaa tccagataag gcgttcatcg 240  
taccatgacg ttgtgagggg gtccgagatt gaggatatcc ttgatgtcag cgatgtgcaa 300  
acttatgtaa tcaatagtgc aaggattgta ttcctgaatg agcggccaca actgcgtgct 360  
tctagtgtcc ccatttgtaa ggcaccaca tcatcaacac ataactgtga gacatgtaac 420  
cgtgtgctac 430

<210> 9121

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-H1

<400> 9121

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tctgatggcg ctgcctggca ggcacgctc cagtacaagc cgcggctggc gctgccagac 120  
 acaaccgttt gatctaccgc ctcaaggcta tatgccgtct ccgctctatc tgccgccgga 180  
 gcaacatcca gaacgacggc aatacccaac tcaagcaccg cagctaaccc cgtgccatca 240  
 gctccgatcc tgatgcgtca gcagcgctcg ccgccgttc ctgcgccagt gcgtcgaagg 300  
 actgaggcac cactgcaatc cggcggcgac actgtaccgc tcgacacagt gccaggcgct 360  
 gcatcagcag tgctgtcacc agatcacgca tgt 393

<210> 9122

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-H10

<400> 9122

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 agcaaacatg ctgagacatt tagttgaacg aacctgagtt gttccgagat ttctgtcggg 120  
 attattcaat tggaatTTTT gaagcttggg attctattgg atct 164

<210> 9123

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-049-Q1-K1-H11

<400> 9123

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 ggctacaaca agcgcttgcg gcgagcgtct tacaacaacc aattaaccaa ttgcaacaac 120  
 aatccttggc acatctaacc atacaaacca tcgcaacaca acagcaacaa cagttcctac 180  
 cagcactgag ccaactagat gtggtgaacc ctgtcgcta cttgcaacaa cagggtgcttg 240  
 catncaaccc acttgctctg gcaaacgtag ctgcatacca acaacaacaa caattgcaac 300  
 agtttctgcc agcgctcagt caactagcca tgggtgaacc tgccgnctac ctacaacagc 360  
 aacaactgct ttcattctagc cctctcgttg tgggtaatgc acctacatac ctgcaacaac 420

aattgctgca acagattgta

440

<210> 9124

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-H2

<400> 9124

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tcggggggcg ttgcaacgct ctgtacaaga ccacctaattg cgacgcatat tccactagac 120  
aggactccag gtatgcacat tcttaagacg aaccataca tgcagtactg cataatggaa 180  
catagctca gtagcttgat tactcgacag tccatcatgc taaatcccct ggtggacata 240  
cctcatcaca cgatgcaaaa gatgacgcct cagatgatga cgccta 286

<210> 9125

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-H3

<400> 9125

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ttgccaccag tcatgccatt gggtagcatg aaccatgca tgcagtactg catgatgcaa 180  
caggggcttg ccagcttgat ggcgtgtccg tccctgatgc tgcagcaact gttggcctta 240  
ccgcttcaga cgatgccagt gatgatgcca cagatgatga cgcctaacad gatgtcacca 300  
ttgatgatgc cgagcatgat gtcaccaatg gtcttgccga gcatgatgtc gcaaatgatg 360  
atgccacaat gtcactgca cgccgtctcg cagattatgc tgcaacagca gttaccattc 420  
atgttcaacc caatggcca 439

<210> 9126

<211> 423

<212> DNA

<213> Zea mays



<223> Clone ID: LIB3059-049-Q1-K1-H5

<400> 9126

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ctaacgtagg cgtccacact caaaattggg gcacggttct gcctttctcc acgcgctggc 120  
cgcaaatctc gtcggtctac caaatccgtc gcgaatctcg tccacaaaac ttccagccat 180  
ggctgccgtg accaatccat ggcagccgcg ccctgggtccc tcgaccgcg cggcttccat 240  
ccatgggtgct tcttcttggt gtggtgttcg gatcgagtc cactgaccga accgaaccac 300  
tgttcgacgg agcagatgac acgatggcca tcttcctggc gctgcggtcg ccgaagctgg 360  
aggtgtcggg cctcaccact accttcggca acgtccacac cgccctcgcc acgcgcaacg 420  
cgc 423

<210> 9127

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-H6

<400> 9127

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acatctacga gttcactggg ttgattgccg atgatcagtt catttcagct gaaaatctca 180  
cagacaacca gaaggcttat gctgatgcat tggtaaagaa agcatatgag gactggatgc 240  
aagttgtaga atatgatggc aaggcactct tgagcttcaa gcagaaaaag aaaactgtca 300  
cgacaagaag tgacgttgca tctgcctcaa caagcaatcc tgcttcatat ggctcgcca 360  
attcacagaa acagttgtct cttccagcaa aagctggaca aacttcctca gcgggtacta 420  
tgaatgaaga tggaact 437

<210> 9128

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-H7

<400> 9128

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ctacccccag caattacttc cattcaacca actggcagca ttgaactctg ctgcttattt 120  
acaacaacag cagctaccac cattcagcca gctagctgat gtgagccctg ctgccttctt 180  
gacacagcaa cagttgttgt cgttctactc gcacgctgcg cctaacgctg gcaccctctt 240  
acaactgcaa caattgctgc cattcaacca acttgctttg acaaaccag cagcgttcta 300  
ccaacaaccc atcattgggtg gtgccctctt ttagattgct tatgagttat agttcaataa 360  
tgatgttttt tggatgatgt ttgtggcttc ccagaaataa gaaagtacat ttctag 416

<210> 9129

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-H8

<400> 9129

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caacaacttc ttccatttaa ccaattggcc gcactgaacc ccgctgctta tttgcagcag 120  
caaatactac taccatttag ccagctagct gcagcaaacc gtgcttactt cttgacacag 180  
caacagttgc tgcctttcta ccagcagttt gcggctaacc ccgcaaccct gttacaacta 240  
caacaattgt tgccctttgt ccaacttgct ttgacagacc cagcggcctc ctaccaacaa 300  
cacatcattg gtgggtgccct cttttagatt gcttattagt tgtaattcaa taataaagtt 360  
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<210> 9130

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-H9

<400> 9130

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ctgatgtcaa gggcaccatc ttcttttcac aggaggggga tgggccgacc accgtgactg 180  
gaagtatctc tggcctcaag ccagggtccc atgggttcca tgtgcacgcg cttggcgaca 240  
ccaccaacgg ctgcatgtcg actggggcac acttcaatcc tgttggcaag gagcatggcg 300  
caccggaaga tgaggaccgc catgccggtg atcttgggaa tgtgacagcg ggagaagatg 360  
gtgttgtaa tgtcaatatt actgacagcc agatacctct tgctggaccc cactcgatca 420  
ttggccgagc tgttgttgt 439

<210> 9131

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-A1

<400> 9131

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gttccccagt cttgtccct gcagtcctcc ctctccatc tccagcgttg tgttctgact 120  
cacctgcacc aatggctgtt ctttctgctg ctgggtgctcc cccggcctca gctatcgggt 180  
ttgagggcta tgagaagcgc cttgagatca cattctctga ggcacctgtc tttgtggacc 240  
cccatggcag cggtttgctg gccctctcca ggtcccagat tgactctgtt ctggatcttg 300  
cacggtgcac gatcgtgtcc gagctctcca acaaggattt tgactcctat gttctctccg 360  
agtcaagctt gttcatctat cctctgaaga ttgtcatcaa gacctgtggc actaccaagc 420  
t 421

<210> 9132

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-A10

<400> 9132

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agaataataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaataaa aaaaagtgcc tcccccttta aatattccaa gtttactatc 180

ccttatttcc aaattcaaac cttttttata tcgtccctta aattaaatac catacccgtc 240  
 attttacaat tatcaccttg gaaaaacctt gacttatcca acctaaaaca ttttttacia 300  
 aatccccttt taccacttg ccatattacc aaaaaacccc taccaaaact ctttctaaaa 360  
 a 361

<210> 9133  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-052-Q1-K1-A11  
 <400> 9133

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 aggacgtaag gatagtgtgc gtctgccatg gcagcttctt ccccccgcg gagttcgta 180  
 agcacgctgg cggcggtgac gtatcgaacc cgcttcgaca tatcgtcgtc aaccctgcgc 240  
 cgttctcgtg aagagggagg gttacgctcc tgttgctgct ggtatcgatc gtgctgtaac 300  
 atgttgtagt aggctccttg tttccgggag ttcaatggaa ggtctctctc tatatttgac 360  
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 acaaattga 429

<210> 9134  
 <211> 383  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-052-Q1-K1-A12  
 <400> 9134

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 gaggtagtgg atatcaaggg tgataatcca gatgctgttg ttctgggtct aatggctgct 180  
 ggtgaagcag cctgtgcac tgttcatggt gcgaataggc taggcgcaaa ttcgcttctt 240  
 gacatagttg tttttggcag agcttgtgca aacagggtag cagatatttc taaaccaggt 300

gagaagcaga aacctctgga aaaagatgct ggagaaaaga ccatagcctg gttggacaag 360  
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<210> 9135  
 <211> 271  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-052-Q1-K1-A2  
 <400> 9135

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 gggctcaatt gtacgcacat tcagtagagc cgtattggag ctctatggaa cattataaat 120  
 ggcaactgtgt ccagagagcc taatgtacgc agcttcctta cacgaccatg ccaaggatgg 180  
 actaagccca tgtgcatcgt aaggcatacc tactgtgatac aataccacac taccgatgca 240  
 gttatgaccg tgccctgtcaa gctcgatact a 271

<210> 9136  
 <211> 325  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-049-Q1-K1-G9  
 <400> 9136

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 gctttactcc ctagtggaaac agttatatga agtgaacgtg cgacatgcag ctgtgtgtct 120  
 cgacattcga caatgatcag cacctgggta catgcgtgat ctgcagatca gtctgttggg 180  
 gatcatcgga gcaataaaaag tgtcatccaa ggcatttttt ctttcttttt gctcttttgt 240  
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<210> 9137  
 <211> 420  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-049-Q1-K1-F3

<400> 9137

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tacagcagca acaactacta ccattcagcc agctagctga tgtgagccct gctgccttct 180  
tgacacaaca acagttgttg ccgttctacc tgcacgctat gcctaacgct ggcaccctct 240  
tacaactgca acaattgctg ccattcaacc aacttgcttt gacaaactca acagtgttct 300  
accaacaacc catcattggt ggtgccctct tttagattgc ttatgagtta tagttcaata 360  
atgaagtttt ttggatgatg tttgtggcgt cccagaaata agaaagtaca tttctagatt 420

<210> 9138

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-F4

<400> 9138

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agggcttttc tgcaacagag atggctgtgg gaggatcctt catggctctg accatagcgg 180  
tcatcctagt tgttctgttc aagagggcat gatagctcaa gagtcatggg taccttctgg 240  
gacccatcgt gctttaaatc tgtcgaaaat tactcgtctg tcgtatggtc aataattccg 300  
aatgcaatgt atagcttgct cgtttctttg gaaacagtac aataaaggat ttatctaaag 360  
tatgctc 367

<210> 9139

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-F5

<400> 9139

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gatgctccca agcatcggca ttgcgatgag gctcatggat atgtccggaa ggaggtttct 180  
 cctcctcgcg acgatcccag tctaatagt cgcgtactc gtcctggtgg tgtccaacat 240  
 cgtggacgtg ggggacgtgg cgcacgcggc gctctccacg gccagcgtca tagtctactt 300  
 ctgcttcttc gtcatggggg tggggcccg cccaacatc ctctgcgag agatcttccg 360  
 caccacggtc cgcggtgtct gcatcgccat ctgcgccctg gccttctggc tcgggtg 416

<210> 9140

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-F7

<400> 9140

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 atgctacttg gtctttctgc aagtgtgct accgcgacca ttttcccgca atgctcacat 120  
 gtcctatag cttaccttct tccccgtac ctctcaccag cgggtgtcttc ggtatgtgaa 180  
 aaccaattc ttcaacccta taggatccaa caggcaatct cagctggcat cttaccttta 240  
 tcacccttgt tctccaaca atcatcagcc ctattacagc agttacctt ggtgcattta 300  
 ttggcacata acatcagggc acaacaacta caacaacttg tgctagcaaa cttgctgcc 360  
 tactctcagc aacagcagtt tcttcattc aaccaactat ctgcattgaa ctctgctgct 420  
 tatttgcaac aacaac 436

<210> 9141

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-F8

<400> 9141

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 tggcagtgct agtgtgagca atgacctgaa tgaacaattg aatgaaaag aaaaagtat 120  
 tgttccaaat taaacgtttt aaccttttaa taggtttata caac 164

<210> 9142  
 <211> 395  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-049-Q1-K1-G1  
  
 <400> 9142  
  
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 acggagccag tagcaaggcg aagaacgggg cggtctgggcg caaggctggc ggccccagga 120  
 agaagtccgt gtctcggacc gtcaaggacg ggatgcaatt tcccgtaggt cggatcgggc 180  
 gctacctcaa gaagggcccg tacgcgcaac gcgtgggcac cagcgccac gtgctatctc 240  
 gccgtcgtgc ttgagtacct agccgacgag gtgctggagc tggacgtcaa cgcttcgaag 300  
 gacaacaaga agacgcgcat cgtaccgtgc cacgtgctcc tggcgatcgc gaactacgtt 360  
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<210> 9143  
 <211> 307  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-049-Q1-K1-G10  
  
 <400> 9143  
  
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 taatataata ctcaattgtg actgtgttca agaagctgct atgtagacag accgatactt 120  
 catcaaaagt gcaatcagtc aactaatca aggatgcttt actcactact ggaacagtta 180  
 tatgaagtga actttcgaca tgcagctgtg tatctctaca ttctacaatg atcagcacct 240  
 gattacatgc atcatctgca catcagtctg atcgagatca tcgcatcaat aaaagtctca 300  
 tacaagg 307

<210> 9144  
 <211> 410  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-049-Q1-K1-G11



<400> 9144

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gagtactcgg gctcaacttc tggatcccg ttcaagtccc gcgacgaatc cctgttgcc 180  
agtgactgat cgaccgatgg atgctacaat atgaatgata tgcgcatgac cagcatggtc 240  
atgcngtcat cagtcctatg cctntgtcag actgagctca ctaaacttac cccctttgg 300  
gggtcgatgt tgtattgcta agttccgttt gtgctaagta ttagcgcata ctgctagact 360  
gccactgtcg tctgtactat gcatgctntt gatctcgagt gatcgtgttg 410

<210> 9145

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-G2

<400> 9145

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gttgtgagcc ctgctacctt cttgacacaa ccacagttgt tgccgttcta ccagcacgct 120  
gcgccctaacg ctggcaccct cttacaactg caacaattgc tgccattcaa ccaacttget 180  
ttgacaaacc taacagtgtt ctaccaacaa cccatcattg gtggtgccct cttttagatt 240  
tcttatgagt tatagctcaa taataaagtt ttttgtctga tgtttgtggc ttcccagaaa 300  
taagaaagta catttct 317

<210> 9146

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-G4

<400> 9146

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tggtgtcgc tgcgagcgcc acctacacgc atacaagcgg cggctgcggc tgccagccac 120  
cgctcgtcgtt tcattctacc cgtcgggtgc atctgccacc tgcggttcac ctgccaccta 180

cggtgcatct tccaccgccg gtccacctgc cgccgccgta ccacctgcca acgacgggtcc 240  
atgtgccgcc gacgggtcat gtgtcgtcgc caccatgccg ataccctact caacctgcac 300  
ggactcaggc taacattagt catacgcattg cccgggctaa ctgtctcatg caagcccggtg 360  
ccag 364

<210> 9147  
<211> 257  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-049-Q1-K1-G6  
<400> 9147

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catgcacgtt gggagatcag atcttcgctt gcataggatg cagactagcc tacctactca 120  
tacgtataac tagatattgt atattatata actaagaaca attccctatc cgctttaata 180  
catggctctg actagcaata ccataactgc acccatctta atgctctgcc aatacatcac 240  
acatatgaca tctgtcc 257

<210> 9148  
<211> 426  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-049-Q1-K1-G7  
<400> 9148

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cttcctgggtg ctgctgctgg gtgcccagga tcacgggctg ggagagcaag cgaccggcgg 120  
cggcccggcc gttggagcag cagccgccgc cgctgctcct cccgcgcggg aggctgtaat 180  
catcagccgg caccagcatt cgcagccgtc ggccgcggcg atggcggaga gcaagcggct 240  
cccatccct ccgtccgggc cgtccactaa gtggaactac gaggcgaatc acgagaagcc 300  
gtcgtcgtcg gagtcgggct cgggccgccg ccgcctcggg tggtggtggt ccccgtagcg 360  
cggccgggtg cggtggttgc ttgagagctg cagagatctc aaggctcagc tagcgtcgtg 420  
tgtgtc 426

<210> 9149  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-049-Q1-K1-G8  
  
 <400> 9149

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ctcagcaaca acaacttctt ccatttaacc aattggccgc actgaacccc gctgcttatt    180
tgcagcagca aatactacta ccatttagcc agctagctgc agcaaaccgt gcttcttctt    240
tgacacagca acagttgctg cctttctacc agcagtttgc ggctaacccc gcaaccctct    300
tacaactaca acaattgttg ccctttgtcc aacttgcttt gacagacca ggggcctcct    360
accaacaaca catcattggg ggtgccctct tttagattgc ttattagttg taattcaata    420
ataaagtttt ttggat                                                    436
  
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<210> 9150  
 <211> 394  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-049-Q1-K1-F2  
  
 <400> 9150

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aagacgttca agaaaccaat gcgttcttat gagaaggagc gtctagatgc tgaactgaag    180
ctgggtccgtg agtatgggct gatgtgcaag cgtgagcttt ggagggtcca gtatgcactg    240
agcaggatcc gtaatgctac aaggcacttg ctcacccttg acgagaagaa ctatcgtcgt    300
atctctgagg gtgaggcgct tcttcgccgc atgaaccgct atgatctgct agctgagggt    360
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<210> 9151  
 <211> 420  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-D8

<400> 9151

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tggcaagtcg cggttttcaa tcaatgggaa gcctatctac cactttgttg ggacttacac 180  
cttcagcgag tacaccgtca tgcattgtgg ttgtgttgca aagatcaacc ctcaggctcc 240  
ccttgataaa gattgcgtcc atagctgagg tataatctacc ggtcttggtg catcaattaa 300  
tgttgcaaaa cctgcgaagg gtctgacagt agctgcattc ggtgtacgag ccgttggtct 360  
tgccgctgca gaaagtgcac ggattgctgg agcgtcaagg atcattgggtg tcgacctgaa 420

<210> 9152

<211> 388

<212> DNA

<213> Zea mays

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<223> Clone ID: LIB3059-049-Q1-K1-D9

<400> 9152

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tctttataac caaagtgaag acagaatact ggaaaaacca accagtgccg aatccaagac 180  
ttatgctagg tcaaagggat acatgttcac gaagggtcag actgaggtac tgacttaagg 240  
tcacacttta aacacaaagt gaggtcgacg aggggtggaga tgctatcgag gaggatctt 300  
gcatgcctgc attcatacaa gcatatnctg aatctgtgta actttgctta gtgaatcagc 360  
tagaacatga aaaatgaaaa tttggaga 388

<210> 9153

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-E10

<400> 9153

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tggtgaatga tccatacact ctggtgatag cactcaatag ctcagggtgct ggagaaggcg 180  
aactttatgt ggatgacggg aaaagttatg agtaccagca aggggcattc atccatcgcc 240  
gatttgtctt tgcagacaat aagctaactt cattcaatat tgggcctgac gatttgggca 300  
agaaatttag aagtgattgc gtgattgaaa gaattataat cctcggttta cgatccggag 360  
tgaagaaggc tattattgag cctggaaatc aagaactaga aattgaatca gggccaatta 420  
gtttaaggag t 431

<210> 9154  
<211> 169  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-049-Q1-K1-E11  
<400> 9154

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tactgtttac attgctcgcg ttctaataaa gtactgtttg gacttgctt 169

<210> 9155  
<211> 433  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-049-Q1-K1-E12  
<400> 9155

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gcggaagcgg catggcgaaa gcgtcatcgt gggcggcggc gatgagcgtc ggcaccgtaa 180  
aggcgctcaa ggaccagtcc ggcctgtgcc gctggaacta cgcgttccgg caggcggcgc 240  
atcaacgcgc caggaggcca gcggcaagcg cgagcggctc agtctgcccc ggcagcgcgc 300  
actcgccgac tgcttatgct ccctcggact gcacacgtgc ggagaggagg agagccaggc 360

aacatcagga ggatgagctc cggacgggtca tgtacctcat caactgcagt cccaacaact 420  
agctacgaac tat 433

<210> 9156  
<211> 326  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-049-Q1-K1-E2  
  
<400> 9156

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atggggctta tgtaagaact cttaacatg tgaaatgcaa ctgctaacat caacattgag 120  
ataagtactt gaatctattg tcgatatgaa ctaactaata ttgtatgacc tgaagggacg 180  
aaagaccaac gaaattgtgt acatccaact tgaaagacgc agtaattgca gtgctcatag 240  
ggctgaatat gatatccaat aaaccactaa ctaagtgttt aaacgaacta ctataatcga 300  
ctatcaatac acaaacatct acttta 326

<210> 9157  
<211> 397  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-049-Q1-K1-E4  
  
<400> 9157

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ggaaggcgaa gaaggagcg gcctgtcgca aggccggctg tccgaggaag aagtcggtga 120  
ccaggtccgt gaaggccggg ctccagttcc ccgtcggccg catcgggcgc tacctcaaga 180  
agggccgcta cgcgacgcgc gtcgtctgcg gtgccccgt ctacctcgcg gtcgtcctgg 240  
agtacctcgc cgctgaggtc ctggagctcg tcggcaacgc tgccaaggac aacaagtaga 300  
cgcgcatcgt cctgcgccac gtgctgctgg cgatccgcaa cgacgaggag ctcgtgaagc 360  
tgctgaccgg cgtgaccatc gtccacggct gcgtgtt 397

<210> 9158  
<211> 402

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-049-Q1-K1-E7  
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 caggatatgat gccaccgatg acaatgatgc cgatgccgaa tatgatgcca tcatgatgatg 180  
 tgccgactat gatgtcacca ataacgatag ctagtatgat gccaccgatg atgatgcca 240  
 acatggtttc accaatgatg atgccgagta tgatgccttc gacgatgacg ccgagtatga 300  
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 caatgataat gccaaacatg atgacagtgc cacaatgtta ct 402

<210> 9159  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-049-Q1-K1-E8  
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 ctcaagct cctatagctt cccttcttcc cccgtacctc tcaccagcgg tgtcttcggg 180  
 atgtgaaaac ccaattcttc aaccctatag gatccaacag gcaatcgag ctggcatctt 240  
 acctttatca cccttggttc tccaacaatc atcagcccta ttacagcagt tacctttggg 300  
 gcatttattg gcacaaaaca tcagggcaca acaactacaa caacttgtgc tagcaaacct 360  
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 <211> 379  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-049-Q1-K1-F1

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atagctcctg atgtcctaga tcgaatgaca gcatctaatac tcctactaca tcttctgtca 180  
cgacagcagc gtttgggcgc agtccgagtg cttaccccag ttaaagcctg ctgagggttac 240  
tgctatcata aacgacttat atgaaccttg tactcttgta ccaactggta ttttaattgg 300  
atgtacaaag tacattatga tccaaagtga acctggaatt atcatccgat gacagaaggt 360  
cactgctggc attactatc 379

<210> 9161

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-F10

<400> 9161

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aaaagagggc aggcacgaag aggagaaaga cagtaaactg aaggacgagt tccacaagtt 120  
actgaatggg aaccatgcgg atcctactga tcgtcgacag cggacacaca tgaacgggag 180  
gcacgacgaa gacatcaatc acgcgctctc cgaggccact gccaacggca cgtaagggcc 240  
cgtcggcatc tgctttcaac cgggggcttt gaccttggcg ctgcgaggag aatcctcgcg 300  
ggggtcgaga aaacctgcct ggtgtggtgc cccggccgcc tttttctgaa ttatgaagct 360  
gtccgagatt ccagcgatcc agccattcac atcatgcac ttctgaacc 410

<210> 9162

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-049-Q1-K1-F11

<400> 9162

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caggcactac tactcaattg caatcaatta ccgaaaaat gagctagagg agaaaatgtt 180  
gttgaacttg cacaaaaaga aatggacaga tggactaatt ttgaagaggt ttgacactca 240  
ctcaaaaacc aacgagcaga ctgtccagga aatgctaaac ctagccatca agtacaacaa 300  
ggcagtgcaa gaggaggacg aactgccacc tgagaaactt gcgatagcaa atgtgggtcg 360  
gcaagatgca naaaagcatt tggaagagca tgtgtccaat ttgatgtcat caaacatagt 420  
tcagacccta ngaaccatgc tcg 443

<210> 9163

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-F12

<400> 9163

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cactgaaccc tgctgcttat ttgcagcaac aactattacc atttagccag ctagctactg 180  
cctactctca acaacaacaa cttcttccat ttaaccaatt ggccgcactg aaccccgctg 240  
cttatttgca gcagcaaata ctactaccat ttagccagct agctacagca agccgtgctt 300  
ccttcttgac acaacaacag ttgctgccgt tctaccagca gtttgccggt aaccccgcaa 360  
ccctcttaca actacaacaa ttgttgccct ttgtccaact tgctttgaca aaccagcag 420

<210> 9164

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-D7

<400> 9164

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gaaagtgagg aaggtcttaa ggctacattg aatgtcaatg tcttcggaac tattacttta 120  
actcgcttc tagcacotta catgcttgat agagggatgg gccattttgt tgtgatgagt 180

agtgctgctg gaaagggttcc tgctcctggg caggccattt actctgcctc caaacatgct 240  
 cttaatgggtt acttttgcttc tctgcgatct gagttgcgta caaaaggcat taaggtcact 300  
 gttatctgcc ctggaccgat tgaaacacta caatcttctg ctgcagcttc ttcacgcaa 360  
 acacattctg ctgagaaacg tgagaaacgt gtttcgggtg aacggtgtgt tgaactgaca 420  
 attgttgctg ctac 434

<210> 9165

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-C12

<400> 9165

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 ttcccttggg gttgggttgg tgctgattat gtggttgagt ctactggggg tttcactgac 120  
 caggaaaagg ctgcagctca cttgaagggt ggtgccaaaga aggttgatcat ctctgctcct 180  
 agcaaggatg ccccatgtt tgctggttgg gtcaacgaga aggagtacaa gtctgacatt 240  
 aacattgtct ccaatgctag ctgcacaacc aactgccttg ctctcttgc taaggtcact 300  
 aatgacaagt tcggtatcgt tgaggggtctg atgaccactg tccatgccat cactgctacc 360  
 cagaagactg ttgatgggcc ctcatctaag gactggaggg gtggaagggc tgctagtctc 420  
 aacatcattc cca 433

<210> 9166

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-C2

<400> 9166

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 cgtctctcca agtcccaacc ccggttcctt tgggtctgct gagcgagcat ggctgctccg 120  
 tcgcccgcg tctcgtctct ggagacggag gcgccccagg ctaccgtcac gagggagcgc 180  
 aggctcaacc ccgacctgca ggagcacctt cccaagccat atctcgcgag ggctatggtg 240

gcggtggacc cggaccatcc gaccgggacc gaggggagcg acccccgagg catgagcgtg 300  
 cttcagcagc acgtggcttt cttcgaccgc aacggcgacg gcgtcgtcta cccctgggag 360  
 actttcaaag gcatgcgagc aataggggtgt gggttcttta catccctcgt catctcgttc 420  
 ctcacatcaacc tcgtcatga 439

<210> 9167

<211> 166

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-C3

<400> 9167

gtattgctat gggatcctgt gccaaaacaa tactactacg caacaggatc ccatagcaat 60  
 acgagaaatg tgcaacgtct cataagaaca ggactgcat aaattgaagg aaagaatgat 120  
 ttccatcgat ttatgcagtgc cctgttctta agagacgtag cacata 166

<210> 9168

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-C4

<400> 9168

ccccgctatc gcatactctt ccacggtcgc gcttctacgc atcaggatcc catagcggta 60  
 cgagcaatgt gcaacgactc acaagaacac gcactacgta aatagaagga ccgactgatt 120  
 tcacatcgat taacgaactg cctgcacgac cgagacgtag cacatattga ggacagcgac 180  
 atgattctga cgcttcctgt cagagacatc tcgcacgagc tgatgacaga tccgaatgcg 240  
 tccatcgacc c 251

<210> 9169

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-C5

<400> 9169

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 caacgtggtg cccgtgagcg cggctgagta caggctcgtgc agtgcgcca agggcgtgag 120  
 ggcgctcacc actgggaacg accgcgtcac tctgaagcgc ggcgccaact actttatctg 180  
 cagcttccca ggccactgcc aggcgcgcat gaagatcgct gtcaccgacg cgtgaggcct 240  
 tcggccgacg agccgtgctg gctacgacga ccgctggaca cacggctctcg atcgggtggcc 300  
 agcttattat tattgttatt tcctgttca aagtaaaagc gtcgcgtcct taacctgcgt 360  
 gtaggtagag cgggtgttagg tgtgtagaga ccggccggca ctattgaaaa cttaa 415

<210> 9170

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-C6

<400> 9170

gagaccaaca agcatcatag aaagtggaat ccagtagcaa caatagagca acaatggcga 60  
 ccaagatatt ttccctcctt atgctccttg ctctttctac atgtgttgct aacgcgacaa 120  
 ttttccctca atgctcacia gctcctatag ctcccttct tccccatac cttccatcaa 180  
 ttatagcttc aatatgtgaa aaccagctc ttcaaccata taggcttcaa caagcaatcg 240  
 cagcaagcaa cataccttta tcgcccttgt tgtttcaaca atcgccagcc ctatctttgg 300  
 tgcagtcatt ggtacaaacc atcatggcac aacagctgca gcaactcgtg ctacctctga 360  
 tcaaccaagt agctctggca aacctttctc cctactctca gcaacaacaa tttcttccat 420  
 tcaaccaac 429

<210> 9171

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-C7

<400> 9171

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 ggcactaaga ttgctgtaaa acggttaact gattacgaaa gtccagggtg agaggctgct 120

ttcttgcgtg aggttgagct aattagtgtt gcagttcacc ggaatctttt aagattgatt 180  
 ggtttctgta caacacaaac agagcgccta cttgtttatc ctttcatgca aaatcttagt 240  
 gtggcctacc gactacgaga atttaaactt ggggagccaa tattagactg gtctgcaagg 300  
 aagcgagtgg ctataggcac agctcgtgga ctggagtatt tgcacgagca ctgcaatcct 360  
 aagattatac atcgtgacgt caaggctgcc aatgtcttgc ttgatgaagg ttttgaac 418

<210> 9172  
 <211> 420  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-C8

<400> 9172

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 tgcagcgctt cacctaccgg aagcggcaca gctacgccac caaatcgaac cagacccgcg 120  
 tcgtcaagac acctgggtgg aaacttgtgt accagtacac caagaagcgc gcgagcggac 180  
 cgaagtggcc agtcaccggg aagaagatcc aaggaattcc acacctgaga cctgctgagt 240  
 acaagaggtc caggttggca aggaaccaa ggactgtgaa tcgtccatat ggtggtgttc 300  
 tgtctggtac tgcagttagg gagaggatca tccgtgcctt tttggtcgag gaacagaaga 360  
 tagtgaagaa ggtgttgaag atccaaaaga ccaaggataa ggccttcaag agctagacga 420

<210> 9173  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-D1

<400> 9173

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 tgaaagcaaa gatgccaaca ctgaaggaaa tgaaatgcct gagattccat caactatttc 120  
 atttatgcct gatgcgtcac caaagactat gaagcaactc tatatgacat cgttctctgt 180  
 catatctggg ataatcattt ttggaggctt gatagcccca gtacttgaac tgaaactagg 240  
 gctgggtggc acatcttatg aagatggtat aaggaccttg cacttacctc ttcaattgag 300

tcacgtagat cctatagtgg catcattttc aggtggcgca tttggtgtta tctcagcttt 360  
aatgttggtc gaagtgagaa atgtcaggca gcaagagaag aaaagatgca cata 414

<210> 9174  
<211> 278  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-049-Q1-K1-D10  
  
<400> 9174

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taaccaatgt gaacacagaa tacttgagaa accaccagtt gccgaatacc acgacttatg 120  
ctagttcaaa ggcatacagt ttcacgaacg tgcagactga tgtactgtct tcaaagggtca 180  
cacttctaaa gcacaagggt gaagtccccg aggttggttaa tgctattcac gagtgatctt 240  
gcatgcctgc attcatacaa tcatattctg aatctgtg 278

<210> 9175  
<211> 378  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-049-Q1-K1-D2  
  
<400> 9175

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aggggggcaaa ggtaccagct ctgaatgaca tgaactgcc gagatgtcat caactgtgcg 120  
atctatgcat gactcgacag cctacactat gaagccactg tatatgacct gatccgatgt 180  
catatctggg atcatcatgt tagacaggct cgatcgcccc aatacttgaa ctgaaactac 240  
ggctgagtac cccatgttat gaagatggta caaggagctt gtactgacct ctacaatcga 300  
cttacgttaa ccctatacct gcatcatacg caggaggcgc atcagctgtt atctcagcat 360  
atactgatgg ccgaagtg 378

<210> 9176  
<211> 404  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-D3

<400> 9176

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ctgaactacc gggaggtcat ttctatcctg atgcaactcc atgtacttgt tgatggcaag 120  
gtcaggactg acaagaccta ccctgctggg ttcattggatg tcatttccat cccaagaca 180  
atggacaact acaggctgct ttatgacacc aaggggcgcgt tacgtcttca cacaatcacg 240  
gatgacgatg ccaagttcaa gctctgcaac gtgaggtctg ttcagcttgg ccagagaggc 300  
atcccctacc tgaacaccta cgacagccgc accatccgct accccgactc gtcacatcaag 360  
gccaactaca ccatcaagat cgatctgtag accaacaatga tcat 404

<210> 9177

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-D4

<400> 9177

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tgggagggaa aggtacaatc tgatgctgaa gaattactca tcatcaagac cagggaaatca 120  
cttctggatg ccttgactgc acatgtcaaa gccaatcatg aatatgatgt tctgaagtt 180  
attgctctgc ccataactgg tggtaacacc aagtatttgg aatggatcaa gaacagcacc 240  
cgggacaagt gatctctttt tttttggagc tcgacataat gcgatgatcg aagtgcccat 300  
ggctccttag ctcttcaggt ggcttgacac caagggtgta tctctctttg acctggacat 360  
ctcaattacg ttgctgtacc gaatccatat ctaccatctt caggtaacaa gtgatttggg 420  
gtcccgtgtg ggtaaatcca 439

<210> 9178

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-D5

<400> 9178

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 agttcgacca ggaggctgac ggggaggaag aggacaatgc tggagagacc agcgatccag 120  
 atgacggcag tgtgcagtac ctgaggagga ggctcaagga ggagatgctg ctgaaggagg 180  
 ttgcgctcga ggagctggag aaggagaggc atgccgcagc gtctgcagcc gacgaggcca 240  
 tgtccaagat tgcgtgcctg cgtagcgaga aggcgctggt ggagagggag gcgcggcaat 300  
 tccaggagat gatgcagcag aagcagatgt atgaccggca ggtgatcgag tcaattcagt 360  
 gggatgatcat gaagtctgga atgcaaggct gggagccaga ggccataact gatcg 415

<210> 9179

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-D6

<400> 9179

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 ccgctgccc ttccagggtg cactgccgcc attgctcatc tcccgtggt gcggagggtcc 120  
 accggggcgc caattggtct cctctttcgt tggcagactg agtggcatcc aatcctgaat 180  
 caatgagggg ctggggtttg ctggtgttat cgctacatgt tctttcatgc ctggttagt 240  
 gcgttgcttc tggcgaaca agctcttatg tgcgcacaga gttcccatct acagatatat 300  
 ctctagaaag tgaatggttt gctattccaa agggatacaa tgctccacag caggttcata 360  
 tcaactcaagg tgattatgat ggaaaggcag ttatagtatc ttgggttact ccagaagaac 420  
 ctgggccaag tgaagt 436

<210> 9180

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-A4

<400> 9180

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 agtcgatcct gcagcaggag ccgtaaagcg gacagatcgc ggtgctgatg gcggcgcaga 120



tcgcgcacca gctgaccgcc gattgcggcc tgcagcagcc gactctatgc ccctacgctg 180  
ctgccggctg tgtccccac tgaagaaact atgtgctgta gtatagccgc tgcatagcta 240  
gctagttagag tcatttagcg gcgatgactg agttatcatg tggcacgcat caccatgggt 300  
ggcagtgtca gtgcgagctg agaccctaataat gaacaatgga actgaaacgc agcaagtcac 360  
gacacacaac atagtcgcta tgaga 385

<210> 9181

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-A6

<400> 9181

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cagcagccgc aaagcggcca ggtcgcgggg ctgttggcgg cgcagatagc gcagcaactg 120  
acggcgatgt gcggcctgca gcagccgact ccatgccctt acgctgctgc cggcgggtgtc 180  
ccccactgaa gaaactatgt gctgtagtat agccgctggc tagctagcta gttgagtcac 240  
ttagcggcga tgattgagta ataatgtgtc acgcatcacc atgggtggca gtgtcagtgt 300  
gagcaatgac ctgaatgaac aattgaaatg aaaagaaaaa agtattgttc caaattaaaa 360  
aaaaaaaaa ctaaatcaaa caataa 387

<210> 9182

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-A7

<400> 9182

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tagtccagct gatgccaaacc gtcctgctgc tattgtgggg cttcatgggg aggacagtga 120  
gtcaaagcct gcaccagggg gggaaaactc agaaccgat acacaagtct caccagacag 180  
gctattgcga gcagcccttt tgaggagccg ttatgctgat gtgattgtca aagctcgtgg 240  
cattcttagt cagggtggag acaaacagga agagctggaa aagctacaga aggaagagaa 300

agagcgcttg ttggctgaag gtactgcagc catggaggct tgtagagccg aagctgaaac 360  
tgaaaagaag cgt 373

<210> 9183  
<211> 439  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-049-Q1-K1-A8  
  
<400> 9183

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ctccttatgc tcttggtct ttctgcaagt gctgctaccg cgaccatttt cccgcaatgc 120  
tcacaagctc ctatagcttc ccttcttccc cegtacctct caccagcggg gtcttcggta 180  
tgtgaaaacc caattcttca accctatagg atccaacagg caatcgcagc tggcatctta 240  
cctttatcac ccttggtcct ccaacaatca tcagccctat tacagcagtt acctttggtg 300  
catttattgg cacaaaacat cagggcacia caactacaac aacttgtgct agcaaaccct 360  
gctgcctact ctgagcaaca gcagtttctt ccattcaacc aactagctgc attgaactct 420  
gctgcttatt tgcaacaac 439

<210> 9184  
<211> 326  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-049-Q1-K1-A9  
  
<400> 9184

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cctgcccctg cgcggggctg cagggcttgt acggcgctgg cgccggcctg acgacgatga 120  
tgggcgccag caggctgtac ccctacgcag agtacctgag gcaaccgcaa tgcacccgc 180  
tggcagcggc gccctactac gccgggtgtg ggcagccgag cgccatgttc cagccgctcc 240  
ggcaacagtg ctgccagcag caaatgagga tgatggacgt gcagtcgctc tcgcagcagc 300  
tgcagatgat gatgcagctt gagcgt 326

<210> 9185

<211> 432  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-049-Q1-K1-B10  
  
 <400> 9185  
  
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 agaccagtgg gatgctgacg gatatgttat tcctaatttg cccactcaag ataatgatgt 180  
 ggctgagcct agtgtcccca aagaaaaaga tcctgagcct ctacaggcaa gcgatgagaa 240  
 aatatatctg ggacctcatg gagctccacc atctcaagca aagcagcagg agctgaacac 300  
 cgttggccgc aagcagcggc tccggaacaa actgaaggaa gcagatagga aattctccgg 360  
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 tgggtaccagc ct 432

<210> 9186  
 <211> 382  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-049-Q1-K1-B2  
  
 <400> 9186  
  
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 aaaaaggtaa aaaggataaa aaagaacata actatgagct atgtggaaca tactttaaag 120  
 ggggtgatgt ttttaatgga ttgtttttgc agtccttggc ttttcaaggg gagtctatta 180  
 tttgtttacc tttagtattg ttaatggcca gtagtttatg acattggggg ttcttataag 240  
 cgtggtctgc ctatactatt tccattttct ggcatttacc atttatcctg tcgggctatt 300  
 tagaatgagc tctctgatgt tcctgttgtc aaccttttac attggcagat ctgcattggg 360  
 gactaccct atgcgatcgt tt 382

<210> 9187  
 <211> 442  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-B4

<400> 9187

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ctactctcag caacagcagt ttcttccatt caaccaacta gctgcattga actctgctgc 120  
ttatttgcaa caacaactac cattcagcca gctagctgct gcctaccccc aacaatttct 180  
tccattcaac caactggcat cattgaactc tcttgcttat ttacagcagc aacaactact 240  
accattcagc cagctagctg gtgtgagccc tgctgccttc ttgacacaac aacagttatt 300  
gccgttctac ctgcacgctg cgcctaacgc tggcaccctc ttacaactgc aacaattgct 360  
gccattcaac caacttgctt tgacaaaccc agcagcgctc taccaacaac ccatcattgg 420  
tggtgccttc ttttagattt ct 442

<210> 9188

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-B6

<400> 9188

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gagcaacaat ggcgaccaag atattttccc tccttatgct ccttgctctt tctgcatgtg 120  
ttgctaacgc gacaattttc cctcaatgct cacaagctcc tatagcttcc cttcttcccc 180  
cataccttcc atcaatgata gcttcagtat gtgaaaaccc agctcttcag ccctataggc 240  
tccaacaagc aatcgcagca agcaacatac ctttatcacc cttgttggtt caacaatcgc 300  
cagccctatc tttggtgcag tcattggtac aaaccatcag ggcacagcag ctgcagcaac 360  
tcgtgctacc tgtgatcaac caagtagctc tggcaaactt ttctccctac tctcagcaac 420  
aacaatttct tccattc 437

<210> 9189

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-B7

<400> 9189

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agacgtcagg agcgacttat ggctacatcg tatgtaagtg cctactgaac tatgcacttg 120

aacttgactg ctcacacctt acatgcttca tagaggcatg taccattttg ttgtgatgag 180

tattgcttct atcaatgata gcgctaatat gcaagccctc aactctgcat ccatatatgc 240

tcttactggc tattgtgggt agctgcatac tgagatgact atagatggca taacagtca 299

<210> 9190

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-B8

<400> 9190

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gactatcagc agccaccgcc gcctcattct cgcagtcgcg gtcttctctt ccgtgctcgc 120

ggatgccagc gccagcgccg ggaccttctg cgagccgtgg tgggccatcc cgcacaacct 180

gctcccagc tgccactggt acgtgaccag ccggacctgc ggcacgggc cgcgccttcc 240

gcggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300

gtgcacggcg ctgagcatgc tcatggacgg cgcgatcccc gcggacctcg acgcgcagc 359

<210> 9191

<211> 230

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-049-Q1-K1-A3

<400> 9191

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gtctctgcga ttgaggcaga tcttcaacgg gtgtatttcc tcaaagttaa caaggcaacc 180

attaacatgc tgccgagggt ggagccatat gttgcgtacg gatacccaca 230

<210> 9192  
 <211> 390  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-048-Q1-K1-G8  
  
 <400> 9192  
  
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 acagcccatt ctcttccttt ctggattgca agatgaacta gtccccctc cacacatgaa 120  
 gatgttatat gacaaagctt ctgatcataa cagaaattgc agatttggtg attttcctag 180  
 tggatatcat atggatacct ggatgtctgg aggggaccgc tactggagga caatccaatt 240  
 gttcttggat caatacgtc ctggagtgc gaatcatgat gccagcttca aaagtgaat 300  
 tgcgaagat gatgaagctg ctgattgact ggaaaatctg gatcggactt tttccaaatt 360  
 tctggttcct gatgttgctg caatttggca 390

<210> 9193  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-048-Q1-K1-G9  
  
 <400> 9193  
  
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 gaagaagacc atgtgcaggg acacaagaaa cgaaaggcta cttctgcaca tctccaaaag 120  
 cttcaacagg agttgagtga tctcttgcaa tgccattgc agcctaagac tttctctcgc 180  
 cgctatattg ctggggctgg tgtctcacc ttacttcaga agcaactaga agagttggcc 240  
 aagagaaatg caagcaacaa tagcagcaag agtaagaata aaggatctgg gtttgttgtt 300  
 attggtcagg atcgtgtcga gcccttgcaa gcacttcaa attctgggca agaggtctgt 360  
 gtgaacatag acaaagaaag ggaaaagcga agagtcgctg agaactggag gcggaagaag 420  
 catg 424

<210> 9194  
 <211> 452  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-H10

<400> 9194

atggccgggg ggtacccacg cgtccgccc cgcgtccgca gaatacagca agggcaatgc 60  
atatgctcag gttgccattg gcaccaatga tgtgtacaag agcgccgagg cggttgatct 120  
ggcgacaaaa gaactagggtg gcaagatttt gcggcagcca gggcctctac ctgggatcaa 180  
cactaagatc gcctcttttg ttgatccaga tggctggaaa gtggttcttg ttgacaacac 240  
cgacttcttc aaggaactcc actgaagggt cgggataccc aggtgctgtg ctaggatgta 300  
gtaatgcttg tctgtgggtg aataagatgt ggggtggttg tttctgccct gatgaactta 360  
taatactgaa tgttgctaca gaggttggtg tttctgccag gaggtttggg atttgctatg 420  
taactgtgcc tgcgggctcc gattctggcg ct 452

<210> 9195

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-048-Q1-K1-H12

<400> 9195

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gcctccatca ccaacagcaa caccgccatc gagatcagaa acttcctcgg cgagaagaag 120  
gtcaggaagg tggacatgct tgatggcgtg accatcctcc ggtccgagaa ggtcaaggat 180  
gagctcatcc ttgacggaaa cgacgtcgag ctcgtatctc gtcgccgcgc cctcatcaac 240  
cagaaatgcc atgtgaagaa gaaggatata cgaaagtfff tggacgggat ctatgtgagc 300  
gacaagggcg tcatcgaaga ggagcagtga gcgacagagt agccgaaatg ccaggagatg 360  
aatatggatg tcgtttgagt tgcaattttg tgagactgaa tgtgaaccct ntntctcatt 420  
ccttaaatag 430

<210> 9196

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-H4

<400> 9196

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aaaaaagaag cgctcattat ataacgtgac catgaatata tccaccttct accgaatcaa 120  
catctctacc atattctacc tctaactcaa ttgcatcgcc tacgctttct tacgcaacac 180  
actggaaaaa caacgtgctt acccacttta actagccttt ctgactattc cactttttcca 240  
acatgcgctt atacctacaa ttccttgacg catat 275

<210> 9197

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-H6

<400> 9197

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cagggccatc agagaacgtg acgatgaaga gggccagctt ctacggcatc agcgtgacga 120  
ccatcttcta cgtctcgctc ggggtgcatcg gctacgcggc cttcggcaac gccgcgcggg 180  
ggaacgtgct taccggcttc gacgaagccg tctggc 216

<210> 9198

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-H7

<400> 9198

cccacgcgtc cttattttga ttctgcactg ctcccgtgta caaacgtggg tctcaataag 60  
gcaggcagga atgcatctgc cagtgggaaca gagcaacctg cacattatct atgtatgcct 120  
gttcattgga gggcttggtc attacatggt cgtctatact agaaaaaaca gaatattagc 180  
attaatctat agttaattaa agtatgtaaa tgcgcctggt ttttgttgtg tactgtaatc 240  
atctgagttg gttttgtgaa attttcgtaa aaagaatgaa tgtaaaatcc agaaaatgta 300  
atgccgtgta atatccttat ggaacaatgt ataatctttt ttctcaccac caccagtttc 360



ttccattcaa ccaactg

377

<210> 9199

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-H8

<400> 9199

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gcctgcttat gctccttggc ctttctgcaa gtgctgtctac ggcgaccatt ttcccgaat 120

gctcgcaagc tcctatagct tcccttcttc ccccgtagct ctcaccagcg gtgtcttcgg 180

tatgtgaaaa cccaattctt caaccctaca agatccaaca agcaatcaca gcttgcat 240

taactttatc acccttggc cttcaacaat cattaaccct attacattaa ttacctttgg 300

tgcatttatt ggcaaaaac attaaggcac aacaacttcc acaacttgtg ctaacaaacc 360

ttgctggcta ctcttaacaa cagcagtttc ttccattcaa ccaactatct gtattgaact 420

ctgcttctta ttgcaacaa caacaac 447

<210> 9200

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-H9

<400> 9200

aaacgttaca aggcagagcg agcaaaatat tcggcatttc ttgcttccca ggcgacagcc 60

tcctgatctg gtgatgatta gcacggattt gcaccagaaa attctgaacg tttatatgaa 120

gctgatggcc actattggta ctgcacatag tggagactgg agagtaagca aactgcagc 180

gtcacttggt ctaatgctca cggaagtggc taggatgtcc aggtgatgtc aggccgagag 240

ctatagtcga aatctctacc aattgagcag ttcttgtaac ccagattttg ttccatagata 300

cctcatagc actcacattg aagttttttt ttttttaaaa aaatatatat ttagaaagga 360

cagacattaa gattcc 376

<210> 9201

<211> 352  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-049-Q1-K1-A1  
  
 <400> 9201  
  
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 gcttgcttag tgtatgcaaa ggcattctga accaaagtcc cgtcgttata ttggtgtttg 120  
 tttccactct agtaggctgg gcagtgaagc aagccaccaa cgtcatccag atgaaaactg 180  
 ctgcggacgc atgcgtggtg tatgatctga agcgcaccag atgaagcatg aaagcagctt 240  
 cacggcttag tatcgacata tccaagggaa aactctgcga gggggcgggc tacatcttgc 300  
 gtgccttgac atctttctga tgatgcggtc atatgttggg ccaggggatt ac 352

<210> 9202  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-049-Q1-K1-A10  
  
 <400> 9202  
  
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 cactgcaccc cgatgcttgc ctacgacgca attggacaag tgcacgatga aatatgcatt 120  
 tatctcacat ggttgcttac tgagagaatg caacatcgag cattctgaga ttggagtctg 180  
 ctcacgtgtc agctctggat gtgaactcaa ggactccgtg atgatgggag cggacaccta 240  
 tgaaactgaa gaagaagctt caaagctact gttagctggg aagggtccag ttggaataag 300  
 aaggaacaca aagataagga actgtatcat tgacatgaat gctaagattg ggaagaacgt 360  
 ggtgatcaca aacagtaagg gcatccaaga ggctgatcac ccggaagaag ggtactacat 420  
 aag 423

<210> 9203  
 <211> 386  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-049-Q1-K1-A11

<400> 9203

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gccgtcgaca ggggaattaa tggcgtcgtc gtctagcagc agccaccgcc gcctcatcct 120  
cgcagccgcc gtctgtctct ccgtgctcgc ggctgccagc gccagcgccg ggacctcctg 180  
cgtgccgggg tgggccatcc cgcacaaccc gctcccagc tgccgctggg acgtgaccag 240  
ccggacctgc ggcacggggc cgcgcctccc gtggccggag ctgaagagga gatgctgccg 300  
ggagctggcg gacatcccgg cgtactgccg gtgcacggcg ctgagcatcc tcatggacgg 360  
cgcgatcccg ccggggcccg acgcgc 386

<210> 9204

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-A12

<400> 9204

gggtgggttgg cttctcctcc cttccgttc cggtttcggg tccgtgaggt tctccggggg 60  
tcggtttcgt gggatgaacgt atcgagatgg cgtcgtcgga tgttgagtac cgctgcttcg 120  
tcagcggcct cgcctgtgcc acggacgacc actccctcca caacgccttc agcacctacg 180  
gcgaggtcct cgagtccaag atcatcctcg atcgggagac gcagatgtcc cgcggcttcg 240  
gcttcgtcac cttctccacg gaggatgcga tgcggaacgc catcgagggc atgaacggca 300  
aggatctgga cggtcgcaac atcacgtca acgaggccca gtccc 345

<210> 9205

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-A2

<400> 9205

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gacggttatg gggatgtaga gaacatcctt gttgaaatgg gaacatactt tcaagtccag 120  
gatgactatc tggattgtta tggatgatcct gaatttatcg gcaagattgg aacggacatt 180

gaagattaca agtgctcatg gctagttgtg caagcccttg agcgtgctga tgagagccaa 240  
aagcgcattc tatttgaaaa ttatggcaag aaagatccag cctgtgtggc taaagtgaag 300  
aacctctacg aagaacttga cctagaggcg gtatatcagg agtactagaa tgagagctac 360  
aagaagctga ttgcagacat tgaagcccag ccaagcattg cggatcagaa agtgctgaaa 420  
tcct 424

<210> 9206  
<211> 404  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-048-Q1-K1-F11  
<400> 9206

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aaagacatcc tcaagaagct agagactata gatgaagaaa atatcattgg agcaggaggc 120  
ttcggaaactg tttataaaact tgcaatggat gatggcaatg tctttgcttt gaaaaggata 180  
gtgaaaacaa atgaagggct agatcggttc tttgatagag aacttgagat attgggaagt 240  
gttaaacatc gctatttggg caatctccgt gggtattgca actccccttc atcaaaactt 300  
ttgatatatg attatcttca aggtggaagt ctggatgaag tgcttcatga aaatcttgac 360  
agttggattg gatgcaacgt attaacatta tacttggagc tgca 404

<210> 9207  
<211> 428  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-048-Q1-K1-F12  
<400> 9207

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atgtgccgcc gccggttcat ctgccgccgc caccatgcca ctaccctact caaccgcccc 120  
ggcctcagcc tcatccccag ccacacccat gcccggtgcca acagccgcat ccaagcccgt 180  
gccagctgca gggaacctgc ggcgttggca gcaccccgat cctgggccag tgcgtcgagt 240  
tcctgaggca tcagtgcagc ccgacggcga cgccctactg ctgcctcag tgccagtcgt 300

gccgcagcag tgttgccagc agctcaggca ggtggagccg cagcaccggt accaggcgat 360  
 cttcggettgt gtcctccagt ccctcctgca gcagcagccg canagcggcc aggtcgcggn 420  
 gctgttgg 428

<210> 9208  
 <211> 217  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-F3

<400> 9208

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 gaggcgaggg ccgcctatat tctactccta ttagaacgcc cgtgaccggg attacgtgga 120  
 gcaagcgcgg atgtcaacgc tgcactcaga gtctaccgtc gaatccccc tcaaggcggc 180  
 cgaatacaag gacaccgtaa aggccgatca ccagctg 217

<210> 9209  
 <211> 370  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-F4

<400> 9209

ggaagatgag ccactaaatc cttagacgtc gacagaacca tacgtgcaaa tcagatacga 60  
 agggggggaga cacagagcaa ttcatttcca cccgtgcaat aagatggaag tcagaaccat 120  
 gtagttgttt tcgtttgtaa ttttctttct atagtgtgaag atttgacaag gctgttagtt 180  
 tgcacctcgg atctgcttat atccacaggg caatcgatag ttcagcaagt attgagctat 240  
 acctatgtcc cgagaagatt agatgagttg gcgtcttggc gatcgatgtg ggcttttccc 300  
 gttgttgttc cttgcaattt attttcgaaa aaaaaagaaa catgttcgct ttaagcttta 360  
 ccattccggt 370

<210> 9210  
 <211> 412  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-G10

<400> 9210

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aagtacctta aaataatgac cgagagacat gtagaggggc tattaaggca tgatccacac 120  
gaatatcatc tgccatcaaa agctgcatgg tgcagacata cacagcaagc tgcaaaccct 180  
ttgctaggct actctactgt ggaactcact ggctaattac ctggatcggc tcttactagc 240  
cagctcacat ccatccgtat gcaactctgat aattgacaac tgccatcata ccctactatc 300  
atatgaacca cagcatcatc ttgcacacgt cgttcccatt ctagaaccag cagttctaga 360  
tgtatgagct tatcctggac aacctgcacg gtctgatcca tcagcactat ct 412

<210> 9211

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-G11

<400> 9211

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ggcgaggatg gggcggaagc ggaaggagtt gctgtcgtcg gctccatgga ggacggggga 120  
ggcggcggag gacgaggacg cggcaaggat gagccgagag gggaagggtca gcgtcaccag 180  
caaccccgga gagacgcca ccatgagcgt gcccggagc aagcgccagg acctcgacct 240  
caccgtcgac gacttcgagg aggacgagat cgaccccgag ctgcgctact ccttccagcg 300  
gaacagcagg tttctg 316

<210> 9212

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-G12

<400> 9212

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actgtacacg gacagtggaa gcaccatgaa gtcaagggtga aggactccaa aacccttctc 120

tttggtgaga aggaggttgc tgtgtttggc tgcaggaacc ctgaggagat cccgtgggggt 180  
 tcggttggtg ctgaatatgt tgttgagtct actggtgttt tcaactgacca ggagaaggct 240  
 gcagctcact tgaaggggtg tgccaagaag gttgtcatct ctgctcctag caaggatgcc 300  
 cccatgtttg tcgttggtgt caacgagaag gagtacaagt ctgacattaa cattgtctcc 360  
 aatgctagct gcacaaccaa ctgccttgct cctcttgcta aggtcatcaa tgacaagtcc 420  
 ggtatcg 427

<210> 9213  
 <211> 154  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-G2

<400> 9213

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 aactggccgg ccatttatca cacctggctg gtcgactcaa gcaagccggc ctttaggtca 120  
 ctggctgctg acttcaacca ttacgctgac agct 154

<210> 9214  
 <211> 466  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-G5

<400> 9214

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 ttgcaacaac aactaccatt cagccagcta gctgctgcct accccaaca atttcttcca 180  
 ttcaaccaac tggcatcatt gaactctcct gcttatttac agcagcaaca actactacca 240  
 ttcagccagc tagctggtgt gagccctgct gccttcttga cacaacaaca gttattgccg 300  
 ttctacctga acgctgcgcc taacgctggc accttctaac aactgcaaca attgctgcc 360  
 ttcaaccaac ttgctttgac aaaccaagca gcgttttacc aacaaccaat aattggtggt 420  
 gccctcttta agatttctaa tgagttatag ttcaatatta aagttt 466

<210> 9215  
<211> 425  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-048-Q1-K1-F10

<400> 9215

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atccaaaaac taaaccaa atctccccatc gatcccaact tccagtcgat ctctctgctc 120  
ggctgttgcc tcccaaagcc gcgccttaca acgagattcc tcccctctc tctccaataa 180  
ccctagcctc ctccgccgcc ggcgacgaat ccggcgtttt gagtttctgt tgccagcgta 240  
gccatgtcca tgttcaatag gatcttcggg aagcccaagg agcaggccaa ctccaatggc 300  
ctggccactc tggacaagtt aaatgagact cttgatatgc tggagaagaa agaaaagggtg 360  
ctggagaaaa aagcagccgc tgagctggag agagccaagg agttctcna agctaagaat 420  
aaaag 425

<210> 9216  
<211> 315  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-D2

<400> 9216

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cttgggagggc aaatgaatcg tagtaaaactt gtggaacaag cgatgctgat gatggcacia 120  
aggaaatcat gcaagataac tggcttgtgc tacttttcag ggagcttgaa aagcaaggca 180  
tcactttgcc tgataggtac actgatgatg agttacacag attttatgtt gctgcaaagt 240  
gtgactttga aagtctactt tattctggta agaagacaat tcattgtaag gaaacatatc 300  
acatacttac atagc 315

<210> 9217  
<211> 322  
<212> DNA



<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-D3

<400> 9217

aaaaaaaaa agaaaaaaca aaaaaaaca aatttat tttt aaaaaaaaaa aaaaaaaaaa 60

aaaaagaaca agaaaaaaaaa aaaaaaaaaa aggccaaccc atctaaaaaa tccaaccttt 120

cttacacatc catccttacg tcatagttct tccatactca tacctaattt caattcactc 180

cccattttat tacactgcct caacttttaa aaccttggca ttaccaaaact tattcctttt 240

ccaaactata cccctttcca caacttcccc atttcccaa atgcctaac agataaaatt 300

tccaacagt ttcccattct aa 322

<210> 9218

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-048-Q1-K1-D5

<400> 9218

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ctggcaacca aagatgggtg tggccgtggc cgagaccgta atggttctga tatgaagtgc 120

tatgagtgtg gtgaagttgg ccactttgca cgtgaatgtc gcttacggat tgggttcggga 180

gggctgggta gtggaaggcg tcgcagccga agtcctagat atcgcagccg gagccgaagt 240

cgcagccgga gcccaagaca tcgaaggagc ccaagctatg gcagaaggag ctacagccca 300

cgagatcggt ctcctaggag gcgaagttac agcatgtcgc cgnactgcc accaccgnct 360

cctagaaata acagcatgtc accacggnga gcccagaaaa tgagcagatc gtcaccacca 420

cctcccataa ataacagcag t 441

<210> 9219

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-D6

<400> 9219

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 cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaattata 180  
 gcttcaatat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgagca 240  
 agcaacatac ctttatcgcc cttgttgttt c 271

<210> 9220  
 <211> 222  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-D9

<400> 9220

cattgagagt gctaataagg agattgccct gtggttcccc gagggccctg ctgatgggca 60  
 gagcagccag cacccttgga tctacgagaa gtaaacaatgg aaagtttcac atcaaaccctt 120  
 gagagccaga ggaagcatgt caccatttgt gcttttagcaa tgttttcgaa aagattatga 180  
 tctgtatctt ggaaccttat ttcaatggac caaatttctt tc 222

<210> 9221  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-E10

<400> 9221

caactctgac ggcagcgagc cagagcttca ctattcatac tgggtgctggg aagatcgtgt 60  
 cctgaaatac aaagtgatgg gcaggtaaag gttgatatgg gagagcccat cctttctgga 120  
 gcagacatcc ccacaaaact ggtagctacc aagaacaaag ctgttatcca agctgagttg 180  
 gcagttgagg gcttaacatg gcatgtcaca tgtgttagca tgggcaaccc cactgtgtc 240  
 acatttgagg caaacgagtt aaagaccttg cagatcgacg atttaaaact cagcgaaatt 300  
 gggcctaaat ttgagcatca tgaaatgttt cctgctcgca caaacacaga gtttgtacag 360  
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<210> 9222  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-048-Q1-K1-E11  
  
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 agattttttc atgggtccag ccaacagcaa gtacatcttc cccctgaacg ttttcagtgg 120  
 tccagaaggc tctctacac atgtcagaac tcttcactctg ggctatgtct gtctggacac 180  
 aacctcgtct gatttcatga tctttgcaaa tcttaagaag ctactctgc aaaaatttc 240  
 ctttttgga gacctccagt gctgatgct gccagaatgc aattctcttg agtgtctgag 300  
 catcagcttc tgttccttgc ctggtttaag cacatgcaa ccgctgcaac gtctgcaatg 360  
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 gttt 424

<210> 9223  
 <211> 427  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-048-Q1-K1-E12  
  
 <400> 9223  
  
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 tgtcactggg tctaccggtg ggggccacgg tgaactgctc ggacaacacg ggcgccaaga 120  
 acctctacat catctccgtc aagggcacatc agggccgcct caaccgcctc ccgtccgcct 180  
 gtgtcggcga catggtcatg gccaccgtaa agaagggaac gcccgacctc aggaagaaag 240  
 tgatgccgcg cgtcatcgct cgccagcgca agccgtggcg tcgcaaggac ggtgtctaca 300  
 tgtacttcga agataatgct ggagtgattg tgaatcccaa gggtgagatg aaaggttctg 360  
 caatcactgg acctatcggc aaggagtgtg ctgacctttg gcctangatc gccagtgcag 420  
 caaatgc 427

<210> 9224

<211> 366  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 9224  
  
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 cacggaggag gcgatgcgga acgccatcga gggcatgaac ggcaaggagc tggacggccg 120  
 caacatcacc gtcaacgagg cccagtcccg cggcggccgt ggaggcggcg gcggtgggta 180  
 cggtggtggc cgtggaggcg gcggtctacg cggtgggcgg cgccgtgatg gcggtggcgg 240  
 ctacggcggt ggcggcggtt acggtggcgg cggcggctac ggtggtggtg gcggcggtta 300  
 ccgcggtggc aaccgtggcg gcggtctacg caactncgac gggaactgga agaactgagc 360  
 ggtggg 366

<210> 9225  
 <211> 366  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-048-Q1-K1-E5  
  
 <400> 9225  
  
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 gatgctggat ggccaagtgc aagaaccaca cggcgcataa ccagtcgttc aaggcgcaca 120  
 agaacggcat caagaagccc aagcgccacc gccagacctc caccaagggg atggacccga 180  
 agtttctgag gaacttgagg tactcaagga agggcaacaa gaagagtggc gaggctgagt 240  
 ccgaggagta agatgatggt gattgagttt gtggcgacaa atgcatctct tgtatcgcta 300  
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 atgata 366

<210> 9226  
 <211> 292  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-048-Q1-K1-E6

<400> 9226

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accgctgctt cgtcggcggc ctgcctggg ccaactgacga ccactccctc cacaacgcct 180

tcagcaccta cggcgaggtc ctcgagtcca agatcatcct cgatcgggag acgcacatgt 240

cccgcggctt cggcttcgtc accttctcca cggaggatgc tatgcggaac gc 292

<210> 9227

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-E7

<400> 9227

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cctgctaatt cttcagatag gtccgacagg tctgataaac ctttggacca aaagacaatg 120

cgacggcttg cccaaaatcg tgaggcagca agaaaaagtc ggctgaagaa aaaggcatat 180

gtgcagcagc tggagagcag taagctgaaa cttgcacaac tggaaacagga actccaaaaa 240

gctcgccagc aggaaatctt catttttagt tttgaaaacc aaaccaatcc aataattgaa 300

aatgaacctt tgacttttgc cttaaatttt gctaaatggg tagaggacca aatt 354

<210> 9228

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-E8

<400> 9228

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tcagtcacaa gcagaccggc aaggtccgcc tagtcatgcg ccaggctaaa acgcttaaga 120

tctgcgcgaa ccacctcgtg gcctccacca cgaagatgca ggagcatgcg ggcagcgaca 180

agtcgtgtgt ttggcacgct gctgactttg ccgatggcga acttaaagag gagatgtttg 240

ccatcaagtt tggttcggta gaaaactgga agaagttcaa ggaattgggt gaagaaatag 300

ctgaatccct tacaagaac caaggccagg gaagttaaaa.ttggtggtcc aacgcttgat 360  
 tggttgcaa acttaattgt aaccaaggcc aattttaagg 400

<210> 9229  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-E9

<400> 9229

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 acgtcgagaa gccgcccccc gccgcgtgag ccgcgcggcg ctgctaggcc agcccacact 180  
 gctgctcgct cataaaaagg gcggcgggag agcctggcag tggcaggcac tctgctcgtg 240  
 ctcggccggg ctgggctccc tgcttatatc actgcattat tatactacta gtagtggtgc 300  
 tggatagcag tgtgtggctg tgctaatacc agtataatac tggttctact ataatacagt 360  
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 tgtaat 426

<210> 9230  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-D12

<400> 9230

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 tgttcaacat tcatctggtt aaattacaat ggttaatttg aaatttggtg agagcgcagc 180  
 ttcgtgagtc caagggcatg acaacaatca aacttcgtcc aactgtggg gaggctggtg 240  
 atatcgatca cttgctgca gcatttctta cttcacataa cattgctcat ggggtgaacc 300  
 taaagaaatc ccctgtactt cagtacctgt attatcttgc tcagattggg ctagcaatgt 360  
 ctcccttaag taacaactca ctgtttatcg actatcatcg gaaccctttc ccaacatttt 420

tctta

425

<210> 9231  
<211> 402  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-048-Q1-K1-B5

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ggaggaggga gccgctgcgg cgcggggccg tcagcgcgcg cctcccgggtg ccggaccaca 120  
tacgcccggc gccctacgtc ggcacggccg ccgtcccggg ggtgtgcccc gaccggcagg 180  
tgcacgacgg cgagagcatc atgcggatgc tggacgcctg cgagctcgcc gctcgggtgc 240  
tgcaccatgc cggggcgatg gtcaagccct cgggtgacgac ggacgagatc gacagggtgc 300  
tgcaccagat gatcgttgac gccggcgcct acccctnccc tctcggatac ggcggggtcc 360  
ccaagagcgt gtgcacgtnc gtgaacgagt gcacctgccg cg 402

<210> 9232  
<211> 231  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-B6

<400> 9232

taaaagtgac gcccaattac tgccctcaat gttttgttag acttaatggc tcactacgct 60  
aacggtcggt gtaattatat acatacatct acaataacat ctgtttaagt tacacaagct 120  
caaaacaaat ggcttcctag ctccatcggt ttgttgctgc gtgttcatga tattccatcg 180  
gcgaacattg acaactctgc cacgcacatg actatttgtg ttcaaccttt a 231

<210> 9233  
<211> 462  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-048-Q1-K1-B7

<400> 9233

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ctagcaagat attatccctc cttgcgcttc ttgcgctttt tgcgagcgca acaaatgcgt 120  
tcattattcc acaatgctca cttgtccaa gttccattat tacacagtgc ctcccaccag 180  
ttacttcaat gggcttcgaa caccagctg tgcaagccta taggctacaa caagcaattg 240  
cggcgagcgt tttaacaaca ccaatttccc aattgcaaca acaatccttg gcacatctaa 300  
caatacaaac catcgcaacg caacagcaac aacaatttct accagcactg agccacctag 360  
ccatggtgaa ccctgccgnc tacttgcaac agcagttgct tgcacaaac ccacttgctc 420  
tggcaaacgt aattgcaaac cagccacaac aacagctgca ac 462

<210> 9234

<211> 148

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-C1

<400> 9234

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aatgccaatg ttgacattat cgtgggtgat gctattatgt tgtgggtgat tattggatat 120  
gtttgctggt taatacacat tgttgtag 148

<210> 9235

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-C10

<400> 9235

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tcgagagacc gtctatctgg gggatctaata caagcatttc gaccacacta tcaggctaga 120  
tgactgttat atgtacagaa cttacagctg tagagtagag ataagcacga gagcgaggaa 180  
ttgctggggg atgccgagcc gcctgatctg attgtagttc agtgcccttg tcttggtgcta 240  
attgctagaa aatgaatact ccagcaaaa aaatatgtaa atgcagctga agtgtacgat 300



tactaacttc tacttaatta aatcattctc agatacaggc tttttcctgc tcgtaagttt 360  
 gaatatatat ttaaaaaaaaa aaaaaataaa taaaaaaaaa aaaaaaaaaa ataaaaaaaa 420  
 aaataaaa 428

<210> 9236  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-048-Q1-K1-C12  
 <400> 9236

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 tctccacag cccaaaaacc cagacatcgg gcttctctat accgccccac agcggagcgc 180  
 cagaggccgc tgtggggcggt tatagagaag cccacagcg gagcgccaga ggccgctggc 240  
 ggtcgcggcg tgaaggacaa cgtgcccaac cgggtggttca ggccggagac cgacgccccg 300  
 tcctccatcc gctccatcca gatcgaggag caggctatga aggacttcag gcgcttctac 360  
 agcagcgtga ggatcgtcaa gccgcatgtc tagtagcact ggatgcggcg gc 412

<210> 9237  
 <211> 157  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-048-Q1-K1-C2  
 <400> 9237

cctcaattcc cttatccacc cacgcgtcca ctcaactaac acaccactct accaccaact 60  
 cttttattat tcaccacaac ttacctctct atagactgga tttctaacaa aaccttttcc 120  
 ctctcatcc tccatccttc caattcatat catctta 157

<210> 9238  
 <211> 388  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations

<223> Clone ID: LIB3059-048-Q1-K1-C3

<400> 9238

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cccggatgag gttgacacgc taaaagacca gttgatccat gtgacatcct tatctggctc 120  
tgggttcaac atcctagtgt gtgatggcag ccttgcacta gcgtggcata atcgcccgtt 180  
atatgtggca acagcttggt gtgtgacagg aagaaatgct gccagttcca tggttggcaa 240  
catctgtaaa ggtacaaatg ataatagaag aaaggaaaac cgtaatggac ccatggagta 300  
acaggaaaga taaccatgtc atgaacaaat cgatcaagtt attaaatgca ctgttgactt 360  
ccaaaaaaaa aaannttat ttttttac 388

<210> 9239

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-C4

<400> 9239

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cgagccgtgc cccccgccgg ccatgtcgaa gcaaggaggg aaggccaagc cgctgaaggc 120  
gccaaggctc gacaagaagg agtacgacga gagtgatctt gcttatttgc agaagaaaaa 180  
agatgaggaa aaggcgctga aggagctgaa ggccaaggca cagaaggggc caattggagg 240  
ctcgggtctc aagaaaagtg gaaagaaatg agcattgcc acccacccat ctccaaaaca 300  
cctaagagaa cgaatagaca actgcttatc tgggttgggc ctactatat gatatatggg 360  
gcttggaaaa catggtgcct cttggattcc cgggttcgcg gtggtccaat tggtttgctt 420  
ggatcc 426

<210> 9240

<211> 198

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-C8

<400> 9240

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 tgcaagatcg aatccatgat taaactactc ttctagcaca ttctactatc cgtaatatga 180  
 ctctatctaa cttatatc 198

<210> 9241  
 <211> 439  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-D1

<400> 9241

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 caggaaagag gcgaggccag tgaatactga tgtggctgct ggtccatcca ggactccgaa 180  
 gaagaaagag aaagccgcat cctcttcggc gtcgggtgtca gtgtctgggt cggggtcagg 240  
 atcgggggtct gtatccaagg atgtcgctgg aaagcgggcg aagagggcgc agaagcgaga 300  
 agctgcagac aaggcaactg cagagaagca cctgaagcac ctgcagaggg ttgggctgag 360  
 aaaatcgcca gagcctgtag tgcccgcga gggtgggcca cagggtgaatg agtgacttaa 420  
 gccggcgccct aatgctata 439

<210> 9242  
 <211> 427  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-048-Q1-K1-D10

<400> 9242

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 taactcacia attccacaaa aaataagcac ttacacaatt ggccctttcc aaacctccaa 180  
 cggagagaag gccaaactga aagtgaaggt gcggtctcaac atccatggga ccgttacagt 240  
 tgattcgggtg ataatgctgg aggaggatgt ggaagttcca gtctcatctg caaatgaagc 300

tccaaacgat actatgaaga tggacacaga tgatgtgcca agtgatcctg ctgctggatc 360  
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 aaagtct 427

<210> 9243  
 <211> 274  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-D11

<400> 9243

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 gaagaagagc aggaggctgc cggctcttga ggagatctcg cgagcagaat agcagatggc 180  
 tgatatagat tagcagcagc atcatcatct ttcgatcgag ctccatgcat atatcgtttg 240  
 agcgagcgcg gatcctctgg acctaactgc agtc 274

<210> 9244  
 <211> 440  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-B4

<400> 9244

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 cataagaatc ggccagctgg ctatcttgtg tgtccctgga gaattcacia caatggctgg 180  
 caggaggcta cgtgatgccg tcaaagctgt acttacaagt gacaacagtg gtgaatttaa 240  
 tacaatcatg gtggtcttgc ggggcctacc aatacatatt cgcaggatat tacaactttt 300  
 gaagaatttt aaatccaaag attccaagga acatcgacct tgtattgccc ccaaaccttg 360  
 aacgcctacc ttcaagaatt ccagaaactt ggtacaacca ttgtggcaaa caaagaagtt 420  
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<210> 9245  
 <211> 206  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-048-Q1-K1-A1  
  
 <400> 9245  
  
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 cttcttatcc actgtgcatg gattaatcaa ctgctgtcga tacttgtata tacacatcaa 180  
 attttcactc aacacattct acttaa 206

<210> 9246  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-048-Q1-K1-A12  
  
 <400> 9246  
  
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 ccaggagcgt ccgtccgctc tctgacatcc acaaacta tcctttgagc attacatata 180  
 tttttgaact gatttagttg tgcattacca ttttattcaa aattttgtat gccgtcgcaa 240  
 cgcacgggca cttacctagt accttgataa gaccaggaag aggttccttt gggcaagagg 300  
 agaaaatcca acgagaggga aatgcaaagt cgtccaataa acctcgtgcg gcttaggaat 360  
 gcttgattca gaaagatttg ctagagcgtt gtgattacgt tggatgtggc tgcaatgggc 420  
 taaacc 426

<210> 9247  
 <211> 260  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-048-Q1-K1-A2  
  
 <400> 9247  
  
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ggcggagtgg tttttaggtc gtggaggcag cggtggttgg tactgtggtg gtcatttatg 120  
 cgtttgatac atgtgtggct gacgccgtga tggcttcatg ctacatactg ctgtggcata 180  
 tgctacagtg tctgctgctg ctactgtggt ggtggcagaa gctactgcat tggcaaccgt 240  
 ttctactgct actgtaacta 260

<210> 9248  
 <211> 457  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-048-Q1-K1-A3

<400> 9248

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 tcagtaaagt tccacgctga acttctgaat ttccttggga tagagtgttc tgatatccat 180  
 ggaaaacaga agcaacagaa gcgaactact acattcttta gcttttgcaa ggcagaaaag 240  
 ggcattctat tgtgcactaa tgtggctgcc cgtggacttg atattcctga cgtggattat 300  
 atcttgcaat atgaccctcc agatgaacca aaggattaca ttcacagagt tggtcgtacc 360  
 gcacgtggtg agaaaagcaa agggaagtgc atntgctgtc ttactaccag aagaactgaa 420  
 gtttctatattt aacctgaaag cggccaagggt taccctg 457

<210> 9249  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-A5

<400> 9249

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 gcattgatgt tatggccttg gtggttatca atccaggaaa tccgactggg caggttcttg 180  
 ctgaagacaa ccaatatgat atagtgaat tctgtaaaaa tgagggcctt gttcttctag 240

ctgatgaggt atatcaagag aacatctatg ttgacaacaa gaaatttaac tctttcaaga 300  
agattgcaag atccatggga tacggcgagg atgatctccc tctagtatca tttcagtctg 360  
tctccatagg atactatgga cagtgtggta aaagaagacg ttacatggag aatactggct 420  
tc 422

<210> 9250  
<211> 212  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-A6

<400> 9250

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caggagacct gctgattgag ggaacagttt tgctgtgtt tggttacatg aattatctgt 120  
ttcacagatg tgtagagcat ggtgtaaattg cttcatgtgc tgttcgtttc gacaaattga 180  
ttatgctgta gcccttcagg tttcatcttg ac 212

<210> 9251  
<211> 174  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-A7

<400> 9251

cccacgcgtc cgggagaatt agttgagtta cctgagtaca ggcgagaata aatagatcgg 60  
gttgtctcag agaaatgttg taatcattcc taattgtaga gctagagaaa ctctcttttt 120  
tttcgatacc catttcgacg gagttactga tccaaagact ggtcttatgc gttc 174

<210> 9252  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-B1

<400> 9252

gaccaacaag caacatagaa agtggaatcc agtagcaaca acagagcaac aatggcgacc 60

aagagattgt cctccttat gtccttgct ctttctgcat gtgttgctaa cgcgacaatt 120  
 ttccctcaat gtcacaagc tcctatagct tcccttcttc ccccatacct tccatcaatg 180  
 atagcttcag tatgtgaaaa ccagctctt cagccctata ggctccaaca agcaatcgca 240  
 gcaagcaaca tacctttatc acccttggtg tttcaacaat cgccagccct atctttggtg 300  
 cagtcattgg tacaaacct cagggcacag cagctgcagc aactcgtgct acctgtgatc 360  
 aaccaagtag ctctggcaaa cttttctccc tactctcagc aacaacaatt tcttccattc 420  
 aaccaactgt ctacac 436

<210> 9253  
 <211> 275  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-B10

<400> 9253

gttggcacat cacctttggg atgtcataac ctccatttct ttccataaga taaatgtgac 60  
 cgtccattat attttttatc tggttattag gttcatgttg aaagttgaca tagtgactct 120  
 agcgtggagg atgcggctag ttaagatttg gtagctaggt tgttcgcca tttgcctatt 180  
 tattatctca gatcagactt ggtgccgttc cagttgtgca ttgtagcctc tttttaccat 240  
 gaaagttagt tcagaagatt cttttatggt gttgc 275

<210> 9254  
 <211> 321  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-B11

<400> 9254

accacgcat ccgcccactc gtccgccac gcgtcctttt tatgagtact tgacaaagtg 60  
 cggaatgctg catctgatta tgaatgaggc cagtggcaca tgatttcgaa cagcgcaaag 120  
 gatcttatat gaaaaatcct atgcctttgt caatcgaaaa aattaaagcc cactttaatt 180  
 ttaaagcttc ctggaatatg aaaatataaa ggctacacca ttaaactctg atcccacatg 240  
 tcttttttgt acccataaat tattttccat taattaattc aagaaatttg ctctaccagt 300



tattgcttaa cattttttat a

321

<210> 9255

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-B12

<400> 9255

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atcagctttg ccgtcggcat gacatgcgct ttcactagcg gaaaaatcat tttggaggct 120  
gccattctta cagcagtggg ggtgatcagc ttaactgcgt acactttctg ggctgcaaag 180  
aggggtcatg atttcaactt cctcgggtccc ttcctatttg ctgctatcat ggtgctcatg 240  
gtgttttcac taatccagat ctttttcccg ctgggtaaga tatctgtgat gatatacggg 300  
gggttggcat cgcttatctt ctgtggatac atcatctatg acacggacaa tgatcatcaag 360  
cgctacacct acgatgaata catatgggct gctgtttcac tctacctga cgatcatcaac 420  
ctgttcc 427

<210> 9256

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-B2

<400> 9256

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aacggtcagt gtagttctat gcatgcatct acaataacag ctgtttaagt tgcacaggcg 120  
cgagacaaat ggggtcgtag cgccatcggt ttgttgctgc gtggatcatga tattccatcg 180  
gcgaacatcg acaactctgc cagcacatg agtatttggt ttcaaccttt aatgggtggat 240  
ctgttttttt agaaatgtgt caagagaagt tgaaaatgat gatactgggt accaaaactg 300  
gattggggta taatttgaat accggttatt ccttgaccaa atgttaacaa ccaaagtgtt 360  
taagaaactt aaattattta ttccattagc ttgaatcggg caatgggtggg tta 413

<210> 9257

<211> 407  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-H9

<400> 9257

agagcctcat tcattctccat tcgaaacacc ctgcgaccca cactctccct tcggcccagag 60  
cctaaatccc cgcaacgatg gctcgcacga agcagacggc ggcgaagtcc acgggcgga 120  
aggccccgag gaagcagctg gcgaccaagg cggcgcgcaa gtccggccct gcgaccggcg 180  
gcgatgaagaa gcgcgaccgc ttccgcccgg gcaccgtggc gctgcgcgag atccgcaagt 240  
accagaagag cacggagctt ctcatccga agctgccctt ccagcgctg gtccgcgaga 300  
tcgcgcagga cttcaagacc gacctccgct tccagtcctc cgcggtcgcc gcgctgcatg 360  
aggccgtcga ggccctacctc gtccggcctgt tcgaggacac caacctc 407

<210> 9258  
<211> 288  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-G2

<400> 9258

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gtgcgaaaac acagtcgttt aaccctacag gatccaacac gcaatcgcaa caggcatctt 120  
accatcatca cacttgatcc tcaaacaacc gtcagcccta ttacaagaat aacctttagg 180  
tccatttgac agccacaaaa catcactgca catcaactac aacaacttga gctagcaaac 240  
cttgcttgat actctcacca acatcactgt ctcccaatga accaactg 288

<210> 9259  
<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-G4

<400> 9259

caaaaagaca ttggagatca acccatagaa ccctatcatg gatgagctcc gcaagcgtgc 60

cgaggctgac aagaatgaca agtcagtcaa ggatctcgtg atgctgctgt tcgagactgc 120  
tctcctgacc tccggcttca gcctggatga ccccaacacc ttcggcaacc ggatccaccg 180  
catgctcaaa ctccgtctga gcatcgatga ggacgagcct gttgaggcag aagccgagat 240  
gcctcagctt gaggacgacg ctggtgaaag caagatggag gaggtcgact aagtgtcgca 300  
tcgcatgctt gccgtttatc ttatccctag ctaagctacc tgtgatagct taattttcac 360  
tattgttcga ggTTTTTggc acgttatcgg ttgtcctgct ggccaggcta taagtct 417

<210> 9260

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-G5

<400> 9260

caagcggatg ctagagatga tcaagatatt gatggagagt gatctcaacc aaaaagggaa 60  
aaaaaacaca agaggacact aaagacaaac aggcaagagt accataacgc caaccgagct 120  
ctctacagca tgctgaagaa ggagcagcac cagctgacac caccgaagcc atcaaacaaa 180  
tgtgaaaaaa tcatcatgca cgacgaactc ataaacaacc aattgctacg acgcgaaccc 240  
cgatggatca taagaacaag gacgaacaac aacaatgaag accaaccgcg tgcagcacia 300  
cgatgacaag atcaagactc aatgacaaaa gctgccgaac tacaaggact cagcggctag 360  
aagcgcacct gtactgcaaa cacatcgaca ggtgcactct gagcaagatg cggaga 416

<210> 9261

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-G7

<400> 9261

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gtcggatgac tacgactcca tcgtgacagg ggcgcagtta catgtgagca gccatgggtt 120  
gacgaaggct ctcttccttc gcctccaatt cgccagagtc agcaatgctg cgctcgtcaa 180  
gaatcccagag tgggaagggg caccgaattt ggggcagaaa tctggcctca tctcgacgct 240

tatcagcacg cattttctcca tggcagctca gaagcctgtc cctcgacctg ctgatgtgaa 300  
catcaactcg gctgtgtacc ctggcggtcc gtcaacgccca gtgcaggcac caaagctact 360  
caagtatgtg gacacggcag agatggtgcg cggaccacag gacacgccgg gatact 416

<210> 9262  
<211> 386  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-047-Q1-K1-G8

<400> 9262

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ggcgaagccg ccggttggtg gtgacaccat caagccagac ccaaacaat tgccaccgga 120  
atctgacgtg ccacatgact canacaacaa tgctcccggt gctgctgatt atcaggactg 180  
atggatgcta actgggctcc tacctnttct tccccctctg ggatgtcggg catggaaggc 240  
aatgcacgct ccttgggact ngtaagagtt atctgttttg ttgcttcgcg ggcccaaagg 300  
acgcttccct gcaccatctg cctttgtttg gaacggcttg aaccgccgtg gtcctttaac 360  
ctgcagcagg gaaaggaatg gctgga 386

<210> 9263  
<211> 416  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-047-Q1-K1-G9

<400> 9263

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gcctccttat gctccttggg ctttctgcaa gtgctgctac ggcgaccatt ttcccgcaat 120  
gctcgcaagc tcctatagct tcccttcttc ccccgctacct ctcaccagcg gtgtcttcgg 180  
tatgtgaaaa cccaattctt caaccctaca ggatccaaca ggcaatcaca gctggcatct 240  
tacctttatc acccttggtc ctccaacaat catcagccct attacatcag ttacctttgg 300  
tgcatttatt ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc 360

ttgctgccta ctctcagcaa cagcagtttc ttccattcaa ccaactagct gcattg 416

<210> 9264

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-047-Q1-K1-H1

<400> 9264

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ggcgcccaag gccgagaaga agcccgccgt cgagaagcct gcggaggagg agccggcggc 120

ggagaaggcc acggctggga agaagcccaa ggctgagaag cggctccccg ccggcaagta 180

cgcaggcaag gagggctggct agaagaagg gaagaagaag gcaaacaagt cgggtggagac 240

gtacaagatc tacatcttgc aggtgctgaa tcaagtgcac ccagacattg gcctctctgc 300

caaggccatg tccatcatga actccttcat caacgacatc ttcgagaagc tggcggcgga 360

ggcgccaat ctggcacggt acaacaagaa gcctaccatt acgtccagcg agatccagac 420

ctg 423

<210> 9265

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-H10

<400> 9265

agtaccttta ctttctgaag ttttcaatgg taataagagt cgtgaacaca aacatgaggt 60

ataattgagt tcttgtctga tcttttgagt tgcacttgat cttttgagtt cttgtcttgg 120

ttcgttcttg attcttggac gaggtgggat ttggagagcc aagggcggcg cggcagcagc 180

gggtttctcg gtcggactag attgtttcca tcgagatggt gggcggcgga gggcattcgt 240

cgatggacca ccctggcgcc aaggacctcg agcgcggcga gctgcgccgt ggcgcgcctg 300

agtttgcgga cggcgacgat ggagacgggg aagaaagcca gtacttctcg gacgcggagg 360

accggtcgtg gccgtcgac tcgcgcca 388

<210> 9266  
<211> 419  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-H11

<400> 9266

ataatgtttg ggctagcaca gccagcggaa acaggaagct ggattctgct taccgtgcgg 60  
ccagagagaa agaagagcat tgcctatatt tcttggtttt ctcggttaat ggaagtggcc 120  
aattctgtgg cgtggctgag atgattggac ctgtcgattt tgacagaagt gttaattact 180  
ggcagcagga taagtggagt ggccagttcc cagtgaagtg gcacataatt aaggatgtac 240  
cgaacaacct tctgcggcac atcattcttg agaacaatga caataagcct gtcacaaata 300  
gcaggggacac ccatgaggtg aagctggaac agggcctcca gatgctaacg atcttcaaga 360  
gccatgaggc tgagacaaca attgtggaag atttcgactt ctatgagcag cgggagaaa 419

<210> 9267  
<211> 286  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-047-Q1-K1-H12

<400> 9267

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taccctcggc acctacaagg gtgatgctgc ncnncnacnc cnagagcctt cacctcaaag 120  
actacaagta ttgactcgct tctctttgcg acccgttag tttgaaactc ctgcctgcta 180  
atatgttgct gagtgttgtt tgcttgtag agcttttata ttogaacata aaaaaaacat 240  
gcttcctatg tggatgatgg ttatctttat attcgtatat taacta 286

<210> 9268  
<211> 422  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-H2

<400> 9268

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agcgtccaag acctaccctc agaagggtgt caccgtccgt aagaacggct tcatcgtcat 180  
caagaaccgc ccctgcaagg atgtggagggt ttctacctca gatactgtta agcatgggtca 240  
tgccacatgc cactttgttg ccatagatat attcaacggg aaaaagctcg aagatatgga 300  
tccttcgtca cacacctgtg atattccgca tgtgaaccgt actgagtatc atctgattga 360  
tatatcatac gatggatttg ggagccttct tacatcagat ggcaacacta aagatgatct 420  
ta 422

<210> 9269  
<211> 431  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-047-Q1-K1-H3  
<400> 9269

cccacgcgtt cgcggaacgc tggtttccaa cctattccca aagggtcccct tccttcggga 60  
gggctaggct ggtgggtgtca tcaaaaagcc aaaccgttct tgcttgtgct ccaagggtcac 120  
caaagaaact gagaagggtg tgtgcatgga gaagggtgtg tatgttgctg agcagtgtaa 180  
gaggccattt gagcatggct tccagtgcgg aagctacaag gttccagcaa actgatgata 240  
tcgcaagagg gaagcgcttg acgtagtctt tagatttcaa ttgttgcagc cgatcaacct 300  
tcttaggggt gtataatatg aagtcaatgt tgagactaat gtgagggtggg agaggcctat 360  
tgatgcatca aaagtattat gagctaataa taaagccttc tccacataaa aaaaaaaaaa 420  
aaaaagaaga a 431

<210> 9270  
<211> 286  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-047-Q1-K1-H5  
<400> 9270

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aaaaaaacca aaatcaatac tatcagaaac aacaatatta taacattcaa ccaactgtct 120  
acactctacc ctgctgctta ttgcgactaa catctactac cattcagcca gtttagctact 180  
gcactactct caatatcaac aacttgctgc attcaaccaa ttgaccgcac tgaacccggc 240  
tgcttatatg caacagcata tactactaac atctattcag ctagct 286

<210> 9271

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-H6

<400> 9271

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ggcaaacctt tctccctact ctcagcaaca acaatttctt ccattcaacc aactgtctac 120  
actgaacctt gctgcttatt tgcagcaaca actattacca ttcagccagc tagctactgc 180  
ctactctcag caacaacaac ttcttccatt taaccaattg gccgcactga accccgctgc 240  
ttatttgcag cagcaaatac tactaccatt tagccagcta gctgcagcaa accgtgcttc 300  
cttcttgaca cagcaacagt tgctgccttt ctaccagcag tttgaggcta accccgcaac 360  
cctcttacia ctacaacaat tgttgccctt tgtccaactt gctttgacag acccagc 417

<210> 9272

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-H8

<400> 9272

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gcactctcca cctggtgctc cgctccgcg gtggtcagta agccatggtt catttaagct 180  
gctgctgtac ctgggtatct gcgtcgtctg gtgccctctg gtgtacctct atatggatgt 240  
cgtcgtctaa taaacatctg tggctagtgt gtcataaata gtggttgtgg cttcgttggt 300  
ttaatggacc tgttgtgtcc tctgtgttgt ccccaaaact cttctgcagc agtatggctt 360



gaatccttat gaagtttgat atttgaactt 390

<210> 9273

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-G12

<400> 9273

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gacaagaagc cctgagtga cgtattgag atatctggtt gagcatgcaa tccaatatgg 120

acgtggaagg aagggtggact gcttgcggtc cgtggctagt gctgtcttgc gtgaagttta 180

ctgtgtcttc tacgatatat aacgtacttc cgtttgtttc gcttcgtatg tacaatcttc 240

cggttatatg aataataaca tataaaatcg ggttctcacg gtcaaaccgt tcagccaaca 300

ggcctgaacc ctt 313

<210> 9274

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-E8

<400> 9274

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aacaaaaaca aaaaaaaaaa aactaaaac aaaaaaaaaa aaaaaaaaaa aaggggtcct 120

ccttttaaat gatccaaact tacctaccga ttctttccaa tctttaacct ttttattggc 180

tcacctaaat taaattcctg cccccctttt taaaagtca caactttgaa aac 233

<210> 9275

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-F10

<400> 9275

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ctccgacaat ggatctatct gtagtgaaca ctgcactgtg cgacatgtca tagtcaaaca 120  
 taacctcgct gtgcgacgaa cgtctgatga agaccgctg ccaagcatcc accaccaacg 180  
 aatggccgta ctgtatcaac gtgctagtgc acctttacat ctatgacctg aacagtgcgc 240  
 gatgcttcag gaagacatta tcataggagg tcatagacac tggttggaaa cta 293

<210> 9276  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-047-Q1-K1-F11  
 <400> 9276

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 ccgcccgcgc tctcgttttc tcatgcatgg gggcggcgta cgggacggcc aagagtggcg 120  
 tcggcgtggc gtccatgggt gtcatgcgcc cagagctcgt catgaagtec atcgtgcccc 180  
 tggtcatggc tgggtgtgctc ggtatctacg gcctcatcat cgccgtcatc atcagcactg 240  
 ggatcaaccc caaggccaag ccatactacc tctttgacgg ctatgccac ctgtcgtccg 300  
 gccttgccctg tggctcttgc gggcttgctg caggcatggc cattggcatc gttgggtgatg 360  
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<210> 9277  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-047-Q1-K1-F12  
 <400> 9277

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 cacagaaaaca gttgtctctt ccagcaaaag ctggacaaac ttcctcagcg ggtactatga 120  
 atgaagcaga tggaactaga aatgcataca acgcaaatgg aaaccagtca gcaagatatg 180  
 cagccaacac tcagagcatt cctgcaaacg tcggcatgca atacgacggg agtgcagtgt 240  
 cgctgaaat ccagtttagt ggttcatccc ttcagagtca gtcttcaaga ggtccaaca 300  
 tgctagcatt gggccctccg catcaacatc aaagtttcga attcccagcg ctcggccagc 360

ccgttcagcc aacaggcctg aaccctttcg aagagtggcc gcagcagcag gagaaccgtg 420  
gc 422

<210> 9278  
<211> 433  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-047-Q1-K1-F2

<400> 9278

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taagggctgg acaccactgt caggctatag gctcaacagc gatgcggcga gcgtgttaca 120  
acaaccaatt gcccaattgc aacaacaatc cttggcacat ctaacaattc aaaccatcgc 180  
aacggaacag caacaacagg ttctaacacg gcttagccca ctataccatg gagaaccctg 240  
tcgctaactg gaaacagaat ctgcttgcac ccaacccact tgctatagca aacgtagtgtg 300  
caaaccagca acaacaacaa ctgcaacagt ttctgccagc gcttagtcaa ctagccatgg 360  
tgaaccctgc cgtctaccta caacagcaac aactgctttc atctagcccg ctgctgtgtg 420  
ccaatgcacc tac 433

<210> 9279  
<211> 246  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-F3

<400> 9279

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cggtaacta tgcaatcgtc atagattgga tacgggatgg caattatcag aaagcagctt 120  
gctatttgcg aaatgctgca tcgaagcgat ccgcataat caatacagac gatataagcg 180  
gataccaaaa gcatgttaat acattcactg atccagctag ctatgattaa catcatctac 240  
cactta 246

<210> 9280  
<211> 423

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-047-Q1-K1-F5  
  
 <400> 9280  
  
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 ctactgcata ctcaagaagg agggcgccgg cggcctgtac cgaggtctcg gccctagctg 180  
 catcaagctc atgcccgcgc ccggcatcgc cttcatgtgc tacgaggcgt gcaagaagat 240  
 cctcgtcgac aaggaggatg aggaggagga ggacgaagcc ggcggcggag aggatgacaa 300  
 gaaaaagggtt gaatgatcaa agttcttggc caagaaggta gcaatgtcgt gaagcgtagc 360  
 tgaactggaa acggatggac aagtatatatt ggagtttgat gtggtgtttc cggatcgtgt 420  
 gtt 423

<210> 9281  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 9281  
  
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 ctaccggaac acatttgcca acctggcgat cccctcttcc tccatggcgg agcctgtgcc 120  
 acccaagacc atcaagcacc aagacatgtc ctggaccgtg tgggaccgct ggacggtaac 180  
 tggcaacatg acgctgaggg agctcctgga gtggctgaag gagaagggct tgaatgcgta 240  
 cagcatatca tgcgggacct cgatgctgta caactccatg ttcccagagac acaaggagcg 300  
 gctggacaag aaagtgggtg atgtggccag ggaagtggcc aaattggagg tgccttacta 360  
 ccgncgncat ctggacgttg ttgtggcctg tgaggacgac gacgacaatg acgtcg 416

<210> 9282  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-F7

<400> 9282

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cttctttcag ttctcgggag ctgctgcaac ttcctgacac tgttctatat tgtctttgtg 180  
gcactgtaca ctgtaccagt tctgtatgag aaatatgagg acaagggtga tgcttttggc 240  
gagaaggcta tgactgaact gaagaagtat tatgccattt tcgatgagaa gtgcctatcg 300  
aagattccaa agggccccct taaggataag aagcactaga ttggtagtaa ggtatttgct 360  
atgaatcaac atctacatta tgtcactagc tgtcacctct ttctctgaag gatggtgctt 420  
g 421

<210> 9283

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-F8

<400> 9283

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cacgaacgcg gcggagggcc aggtggcgctc agtcgtcttg ggcttggcga ggtgcgcoga 120  
ctgcacgagg aagaacatga aggctgagggc cggtttcaag ggtcttcagg tggcgatcaa 180  
gtgcaagaac agcaacggcg agtacgagac aaaggccgtg agtgagatcc aaagctccgg 240  
agccttcagc gtcccaactcg ccgtcgacct ccacggcgcc gactgccacg cgcagctcca 300  
cagcgccgcc aataacgcgc cttgccctgg gcaggagccg tacaggatcg cgcccatgtc 360  
atgcggcacc ttctgcgcgg tgccctggcaa gatgcactac ccgtccgcgg agtgcg 416

<210> 9284

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-F9

<400> 9284

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attacctgaa gccgcgcttg acctgagaca acgtcaacaa gagcgcctac caggccgtcg 180  
accgctacat ggagaagtac atcgacacga gctcgccgga ccctctatac cacgtctgca 240  
tcaaaaggat gatcttctcc tacttagtca atctgccctg ggagcgcgcc cacctagccc 300  
acctcgagga gatggagacg accggtggga agctctagat ccgttgacct gttcctagcc 360  
ggcagcgcaa tacgacggtt gactctcatg gagtccattc atgctgatgg c 411

<210> 9285

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-G1

<400> 9285

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acaagctcct atagcttccc ttcttcccc atacctctca ccagcgggtgt cttcagtgtg 180  
tgaaaaccca attgttcaac cctacaggat ccaacaggca atcgcaacag gcatcttaac 240  
attatcacc ttgttctctc aacaaccgtc agccctatta caagagttac ctttgggtcca 300  
tttgggtggca caaacatca cggcacatca actacaacaa cttgtgctag caaaccttgc 360  
tgcatactct cagcaacatc agtttcttcc attcaacaa ctggctgcat tgaactctgc 420  
tgcttat 427

<210> 9286

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-G11

<400> 9286

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cagcggttgt tatcatgcag cttttgctct gggcccttga ttctgcctgc gagttggtga 120

aatcgccctg atacttccgt gctcttatat acatttcgat aatagttttg gttttctgac 180  
atctactgta aggtgacctg ttgctgggtt gttggttatc tgaatattaa ttgtaagagg 240  
ccacttagtc tggtatagct ggtggatcgc ctttttcaaa tatatatttt tttgttttgc 300  
actgaaaaaa aaaaaacaaa caaaaaaaaaa aaaaaccaca aaaaaacaag gaataatcac 360  
aaaaaca 367

<210> 9287

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-D11

<400> 9287

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agtatattat cctccttgc gctatttgcg ctttttgca gcgcaacaaa tgcgttcatt 120  
attccacatt gtcacttgc tccaagttcc attattacac agtatgctac atcaggtact 180  
tcaatgggct tcgaacaccc agctgtgcaa gcctataggc tacaacaagc aattgcggcg 240  
agcgtcttac atcatccaat ttcccagttg caacaacaat ccttggcaca tctaacaata 300  
catactatcg aaacgcaaca gctacaacaa tttctaccag ctctgagcca cctagccatg 360  
gtgaacactg gcgactactt gcaacagcag atgcttgcac cataccact tgctct 416

<210> 9288

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-D12

<400> 9288

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gtgccaaatg gacaatggat aatgtcaaat tttctgtcaa agaaccaatc gaggcggttg 120  
caacaaaaga agaactagag caccttgtga tgctttgcag atctgaggct gatgcaatgg 180  
ggaggatcac tgctggaatt cttcgtctcc ttaaacttga caaatctctt gggcaaggaa 240  
ctatagaaca actacgtaac ctaggaagtg gaggcattga caatatcttt tcaccagga 300

ggctcagcag gcagaacagt tttggtagca taggcactcc tcggactcca actatgcaag 360  
ccattgcaga cgtcatgggt tcgaaaacca cactggaagc aactatttcc tcattacaag 420  
gc 422

<210> 9289

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-D2

<400> 9289

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acaagctcct atagcttccc ttcttacacc gtacctctca ccaacgggtgt cttcggtatg 180  
tgaaaaccca attcttcaac cctacatgat ccaacaggca atcgcagctg gcatcttacc 240  
tttatcacc ttgttctccc aacaatcctc agccctatta cagcagttac cttaggtgca 300  
tttattggca caaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360  
tgtctactct cagcaacagc agtttcttcc attcaaccaa ctagctgcat tgaactctg 419

<210> 9290

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-D4

<400> 9290

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gctgttcggc cagccctcgg cgctcgtggg gccgtcggcc gaccccgcg agaccaggcc 120  
gctaaaggtc ggtgtcgagc tctctggtgg acaagcgccc ggtgggcaca atgtcatctg 180  
cggcatcttt gattacctac aggagcgtgc aaaaggtagc accttgcttg gactcaaggg 240  
acgccctgct gggatcatga agtgcaaata cgtggagctc acttcagact ttgcgtatcc 300  
ctacagaaac cagggcggtat tcgatatgat ctgcagtgga agggacacga ttgatacacc 360  
ggagcagttc aagcaagctg aagacacagc caacaagctt gattcggat 409



<210> 9291  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-047-Q1-K1-D5  
  
 <400> 9291  
  
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 ttgcgcatgat ctacgatgg cggcgggcgg tgagttggcg tggggggagg agcccgtggc 120  
 ggggcgcggg cctaagacca agatcgtctg cacgctcggc ccggcgtcgc gatccgtcga 180  
 gatgatctcg cgctgctgc gcgcggggat gtgcgtcgcg cgcttcaact tctcccatgg 240  
 ctcccacgag taccaccagg agacgctcga caacctgcac gccgccatgg agctcaccgg 300  
 gatcctctgc gccgttatgc tcgacaccaa ggggtccagag attagaactg gatttttgaa 360  
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 cat 423

<210> 9292  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-047-Q1-K1-D6  
  
 <400> 9292  
  
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 cgcgtcttct tcgacatgac cgtcggcggc gccccggcgg gccggatcgt gatggagctg 120  
 tacgccaacg aggtgccccaa gaccgaggag aacttccgcg cgctgtgcac gggcgagaag 180  
 ggcgtgggca agtccgggaa gccgctccac tacaagggtt ccaccttcca ccgcgtcatc 240  
 cccgagttca tgtgccaggg cggcgacttc acccgcgga acggcacagg cggcgagtcc 300  
 atctacggcg agaagttccc cgacgagaag ttcgtgcgca agcacaccgt ccccggtgtg 360  
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 gcg 423

<210> 9293

<211> 384  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-047-Q1-K1-D9  
 <400> 9293  
  
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 gctgctacat ctgcggtctc tcctgggcca ctgacgacca ctgcgtccac aacgccttca 180  
 gcacctacgg cgaggtccta gagtacaaga tcctcctcga tcggtagact cagacgtcca 240  
 gcagcttcgg ctttgtcacc ttcttcacgg atgaggcgat gcggaacgcc atcgcaggca 300  
 tgaacggaaa ggatctggac ggaacgaacca tcaccgctaa cgatgccccaa tcccgtctgcg 360  
 gactctgagg cagaacaggt ggggt 384

<210> 9294  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-047-Q1-K1-E10  
 <400> 9294  
  
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 ctatccttaa tctctctatc cagcagagca acaagaagat cattggagac gacccactgg 180  
 cagtcccggt cctgatcaag gccttacagt caggaagcat ggaggccccg agcaacgccg 240  
 ccgccgccat cttcagccta tccgcgctgg acggcaacaa ggcgaggatc ggcgagctcg 300  
 gcgcgatgag gccgctggtg gagctcctcg agcacggcag cacggcagcg aggaaagacg 360  
 cggcctcggc catcttcaac ctgtgcacgc tgcacgagaa caagtcgcgg gccaccaaga 420  
 gcgg 424

<210> 9295  
 <211> 424  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-E12

<400> 9295

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cctcgatcatg ctgctgctgc tgtccgcaga ggtcgggccc gtggcggtgg cggaggcgcg 180  
gacgtgccag tcgcagagcc acaggttccg gggcccctgc ctccgccggt ccaactgcgc 240  
caacgtctgc aggaccgagg ggttccccgg cggcaggtgc cgcggcttcc gccgccgctg 300  
cttctgcacc acgcaactgc actgattcgc tcgccagcg gccggctggc gtcgccgctc 360  
atcgcgctgc gaccagtcca tggctccatg catgaataac aagggtgtgc gcggtttgtg 420  
ttgt 424

<210> 9296

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-E4

<400> 9296

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ggctcctcgc cggcggtccc cgccgccgcc cgtcgccacg tcttctccgc tgacgtgggc 120  
tcaccagggt caaggcaata tctgtgttaa tcttggggac ctccagtaga ttgctgagag 180  
ttctccttga tacaggggaa taaagatcca aataagtttt tgacattgat ctgtagccag 240  
tactgcaatg gctacgaagc ttgtggttct cggtatcccc tgggatgttg aactgaagg 300  
gttactagag tacatggcca agtttggacc cctagacgat tgtgtcgtca tg 352

<210> 9297

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-E5

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ttcctcggag gtagcgggga tcgccactca actgcctcgt tggggtcagg ctctgattcg 120  
gaccccgcca agcgggtcca cgttgcgctt accgctacgg acgcactgta cagtcagtgg 180  
cagtcgcgga taatgcacta ctgctataag gagatgaggg accgacctgt ttccgacatg 240  
ggtggattca ctaggatcct tgactctggc aagcctgatg gattgatgga tgagataccc 300  
accatgggtg gtgatccctt tcctgaacgc aaggatcaag gatataattgt cttaaataagg 360  
ccttggggctt ttgtccagtg gatccagagc gcaaagatcg cagaagagtc tatatttatg 420  
gc 422

<210> 9298  
<211> 482  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-047-Q1-K1-E6

<400> 9298

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tcttcgatct gtccctcgtt tatttcggca aaccatgttc gtctgcccga gggagtatct 180  
ctcgtcgctt aggtttctga gcgtaagtcc gcgtggatgg atgccatctg aatgtttctc 240  
tgaatggtag aaaatcatca agaagcccag tggctctaaa gttcccatgc ataccttcaa 300  
tggatctcac ataagggacc agtcaactta aaggatgcct gtgcogtcat tgcacggaac 360  
taggaagtct cnttccgtat tattgaatgg aaccccaact gctnnngcat cgcttggccc 420  
ctatggtntt tcgagtaaga caaaataact ggaaacgata ttctaagtgt ttagactttg 480  
gg 482

<210> 9299  
<211> 421  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-B5

<400> 9299

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 tcctatagct tcccttcttc ccccgtaact gtcaccagcg gagtcttagg tatgtgaaaa 180  
 cccaattctt caaccctaca ggatccaaca ggcaatcgca gctggcatct tacctttatc 240  
 acccttggtc ctccaacaat catcagccct attacagcag ttacctttgg tgcatttatt 300  
 ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc ttgctgccta 360  
 ctctcagcaa cagcagtttc ttccattcaa ccaactagct gcattgaact ctgcttctta 420  
 t 421

<210> 9300

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-B6

<400> 9300

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 tggatacgcg ttcattaaca tgatatcgcc ggtgcatatt atatccttct accaggcttt 180  
 taatggtaag aaatgggaaa agttcaacag cgagaaggta gcctcgttgg cttatgctag 240  
 aattcaagga cggctctcac tgatatcaca ttttcaaaat tcaagtttga tgaatgagga 300  
 taagaggtgc cgccccattc tttttaatcc caatggtcag gagtctgtgc accaggaagc 360  
 atttccaatc aatggcatat gcattcacat gcttcgggaa gatgattacc ttgacaatga 420  
 agat 424

<210> 9301

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-B7

<400> 9301

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 tttgcaacaa catctaccat tcagtcagct agctgctgcc taccgcgagc aatttcttgc 120

attcaaccaa ctggcagcat tgaactctgc tgcttattta caacagcaac agctaccacc 180  
attcagccag ctagctgatg tgagccctgt tgccttcttg acacaacaac agttgttgcc 240  
gttctacctg cacgctgcgc ctaacgctgg caccctctta caactgcaac aattgctgcc 300  
attcaaccaa cttgctttga caaacccaac aacgttctac caacaacca tcattggcgg 360  
tgccctcttt tagattgctt atgagttata gctcaataat gaagatttcc ggatgatgta 420  
tgag 424

<210> 9302

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-B9

<400> 9302

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gctgcgtcgg ctggagaagc gtattcttgt tccattgcca gagccggatg ctagacatgc 120  
tatgtttgaa gagctcctgc catatacacc tggcacaatg gagatgccct atgatgttct 180  
tgtggagaaa actgaagggt attctggctc tgatattcgc ctggtatgca aggaagcatc 240  
aatgcagccc ctaagacggg taatggcagt tcttgaaggc aggaaagaag aggtccctga 300  
gggtgagttg cctgaagttg gccagtaac tacagaagat attgaacttg ctttgaggaa 360  
tacaagaccg tttgcacatc ttcatgcaca tagatacgaa aagttcaacc a 411

<210> 9303

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-C1

<400> 9303

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atgagcatat cgtcaggact tctgacgcac acatgctctt ctacgtgcag aagacgttct 180  
actacaaagc ttgcgaaaga gcagccacag tctgatctga agcagacatt gatgacacaa 240

cttcagacca ccataaattt atttgtcacc gaatcagata cacatgtagt aagtagttcg 300  
tcaatcaaga agggaaacgg gcgcctgatt cacagcagca taagcatggc ctgttaaata 360  
ttttcgttgt aactgacct atagttccaa tcagagagaa gctttttcgg cggattttgt 420  
cttta 425

<210> 9304  
<211> 420  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-047-Q1-K1-C10  
<400> 9304

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tgatcaccac cgggtgcgcga cgggaggtgg cgggtggctac ggcgacctcc agcgcggggg 120  
cggcatgcac ggcgaggcgc agcagcagca gaagcagggc gccatgatga cggcgctcaa 180  
ggcgcgcacg gccgcgacct tcggcgggtc gatgctggtg ctgtccgggc tgatcctggc 240  
cggcacctg atcgcgctca cgggtggccac ccccgctgctg gtgatcttca gcccggtgct 300  
ggntgcgggc gccatcgcg cggcgctcat ggcgccggg ttcgtcacct ccggcggcct 360  
cggcgctcgt gcgctgtccg tgttctctg gatgtacaag tacctgacgg gcaagcacc 420

<210> 9305  
<211> 412  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-047-Q1-K1-C11  
<400> 9305

ccggtccag tgtgtccgt actccgtcc cctcagtc tcagttctc acgtagcgg 60  
agcgtgcgc cgggagacgt agatggcggc ttcggaggcg gcagcggcgg cggcaacacc 120  
ggtgacccg acagagggga cggatgatgc gatccacagc ctggaggagt ggagcatcca 180  
gatcaggag gccaacagcg ccaagaagct ggtggtgatt gacttcaactg caacatggtg 240  
tcctccgtgc cgcgcatgg ctccaatttt tgctgatatg gccaagaagt ccccaaatgt 300

tgttttcctg aaagttgatg tggatgaaat gaagaccatt gctgagcaat tcagcgtaga 360  
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<210> 9306

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-C12

<400> 9306

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caagagaagt ttggtggcct cagggatgga tactatatcc atggccagtg tgcgatcatc 180  
atgtttgatg taacctcaag gcttacttac aagaatgttc ctacgtggca tagggacctg 240  
tgcagggctc gtgaaaacat cccattgtc ctctgcggtg ataaggttga tgtgaagaac 300  
aggcaggtca aagccaagca ggttactttc cacaggaaga agaactctgca gtactatgaa 360  
atttctgccca agagcaacta caactttgag aaacctttcc tgtacctcgc aaggaagctg 420

<210> 9307

<211> 264

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-047-Q1-K1-C3

<400> 9307

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ctgttcaacc ctgctcgatt agtccacaaa gtggctaata gcctggccga caacgtcggg 120  
tccaaacagc ttcaggacat tcgccggggc ctcaagggcg actcgggtgg gctcatgggg 180  
aagaacacgc tcattaggcg ttggatcaaa gtgtacgccg agaagaccgg taaccacacc 240  
tttgacccgc tcatggacct tctg 264

<210> 9308

<211> 251

<212> DNA



<213> Zea mays  
 <223> Clone ID: LIB3059-047-Q1-K1-C5  
 <400> 9308  
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 cagtcaaccg cgctccccgg cccccagtgg ctctagaac attcgagaac ccctcgctc 120  
 ctcccccaac gataaaatcc tcaccgcgcc gcaacgcattg ttgccccac aaacctcgt 180  
 ctctggtcac tttctcagtc ccctctagcc ggcgcctacc gctcgcgtc tcctcgctt 240  
 cgggaaggtc g 251

<210> 9309  
 <211> 417  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-047-Q1-K1-C6  
 <400> 9309  
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 ttgttactta catattatca tttttttttt ccccaaaaaa ttcttactag aataactaaga 120  
 ccatttctac acagcaatca cataaagttg gatccatcat caacaatgat ttacaaaact 180  
 ctcttgaatc acctgcaaag gttcttatta tacatctgca attgaattat ctaaaattaa 240  
 aacatagaat tcaattatgt tcgttgttta cagggtgaaa caacaacttt tgaagactgg 300  
 ccatgaatat ctagatagta ctacaccatc tacataattt gtaatcaata taatttgcac 360  
 attattcatc ggacaccttt ataaccatag cacatcatga cagtagctca caggctc 417

<210> 9310  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-047-Q1-K1-C7  
 <400> 9310  
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cttgaagatg gcggtgccgc tgttgactca gaagatcgtg aagaagcggg tcaagcagtt 180  
 caagaggccc cacctcgacc gctacaagtg cctcaagcca agctggcgca ggcccaaggg 240  
 tatcgactcc cgtgtcaggc ggaagttcaa gggatgcacc ttgatgccta acattggata 300  
 tggctctgac aagaagacca agcactacct cccaacaag gttaagaagt ttgtcgtgca 360  
 caatgtttct gagctggagt tgcttatgat gcacaacagg acatactgcg ctgaaatcgc 420  
 acac 424

<210> 9311  
 <211> 423  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-C8

<400> 9311

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 tcacaattga tccacaacgt gattcacctg ctcagcttaa ggcatacctt actgagtttg 180  
 acccaagaat agtaggacta acagggtccca tcagtgcagt aagacagata gctcaggagt 240  
 accgtgtttt ctttaaaaga gtagaggaag ttggtcagga ctatcttata gaaagctctc 300  
 acaatatgta cttgctagat ccatgcttgg agacagtaag gtgctttgga agtgagtacg 360  
 aggcacacga ccttgctgag gctataacaa cagaggttca gaaagcatct gcctcatcaa 420  
 caa 423

<210> 9312  
 <211> 427  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-B3

<400> 9312

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 tgaacaaagg tgttgtagag ttggttgcag accatgtagt ttgtgaggaa ggaaagcccc 180

tttcgccaga agcagcgcag actctgcggc tgcttgggat acaaatggcg acattccgtc 240  
tataccttgt gtgtcgctgg tcgggcgatg actttgaagt ttacaaagaa agcttgatgc 300  
acctaagaac tgatgaatcc tcttaagctt ttgtttcctg tatacacaaa aggctcactt 360  
gctgtctttg ctgggacagc ttttggtaac tgtgcgtgtg gccatgtacc caggagtatt 420  
ggaagtt 427

<210> 9313  
<211> 434  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-A1

<400> 9313

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tgatggctta agtgatcacc ttagtgttct tgctgattca ttaaataaag caaggattca 120  
tatctgtcca ccagtgaaaa agccatctaa actcggtgaa agtctcatta gtttggtctg 180  
aatagtggag aatgaacata agaggctgct tgcaaggaag tccatcattg aaaaacgtaa 240  
agaagagctt gagcgtcaaa tattggagaa ggaaaaagaa gaagaaaaaa agagaatgag 300  
cagtcaaaag aaaactgcgg atgaagaaag ggtgaagctt ctcaatgaac agaggcagag 360  
ggagcaggac cggattcgta gagagataga ggaaaaaaat aaagcagaag caaaaaagtt 420  
gctagaagat ttga 434

<210> 9314  
<211> 418  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-A10

<400> 9314

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atattttgcc tccttatgct ccttgggtatt tctgcaagtg ctgctacggc gaccattttc 120  
ccgcaatgct cacaagctcc tatagcttcc cttcttcccc cgtacctctc accagcgggtg 180  
tcttcgggtat gtgaaaaccc aattcttcaa ccctacagga tccaacaggc aatcgcagct 240

ggcatcttac ctttatcacc cttgttcctc caacaatcat cagccctatt acagcagtta 300  
 cctttggtgc atttattggc acaaaacatc agggcacaac aactacaaca acttgtgcta 360  
 gcaaaccttg ctgectactc tcagcaacag cagtttcttc cattcaacca actagctg 418

<210> 9315  
 <211> 181  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-A11

<400> 9315

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 tcctaccaac aacacatcat tgggtggtgcc ctctttttaga ttgcttatta gttgtaattc 120  
 aataataaag ttttttggat gatgtatgtg gcccaaccaga aataagaagt tacatttcca 180  
 g 181

<210> 9316  
 <211> 417  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-A12

<400> 9316

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 cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaattata 180  
 gcttcaatat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgagca 240  
 agcaacatac ctttatcgcc cttgttggtt caacaatcgc cagccctatc tttggtgcag 300  
 tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc tctgatcaac 360  
 caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct tccattc 417

<210> 9317  
 <211> 225  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-A3

<400> 9317

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ggttggaag gaggtaacca atttcgttac aaacgggaaa gtatagcgct ataccgcaa 120  
agcccttctt gcgcttcaag aagcaacaga attccacttg atagaactgg ttgaaatggc 180  
gaatctgggt gccattcatg ccagcgtgac acaattatgc aaaag 225

<210> 9318

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-A4

<400> 9318

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agctgaaatg gctcctaaag ctgctcctgc caagaagggt gatgccaaga cccatgcctt 120  
gaagggtgcc aaggctgtga agtctggggc agccaagaag aagaccaaga agatccgcac 180  
gtctgtgaca tttcaccgcc ccacgacct gaagaaggct agggacccca agtaccacg 240  
aatcagcact accggaagga acaagcttga tcagtaccaa attctcaagt acccccttac 300  
cacagaatca gcgatgaaga agattgaaga tcacaacact ctggtcttca ttgttgacct 360  
caaggcagac aagaagaaga tcaaggctgc cgtcaagaag atgtatgaca t 411

<210> 9319

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-A5

<400> 9319

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gatgactacg ttcagagggg gcgcccata gatggttatc ttgacaggag tcggcgctcg 120  
tcaggatctc ctctgggtaa ctggggaaat gatctgcgtg acagaagccg ctctcctgca 180  
cggaacaggc ctatgaagag ttccttcacc ggaagaggct gacctgacga ctatgctgct 240

gatccatatg gcagccgagg gagacccaat ggtatggagg ccggccgtgg gcgtgggcat 300  
gcttacagag caagcagtgg tccgtaccct ggtgagactc gaggtgacca acgcgctgct 360  
ccacgcgcta ggaacgagga tggctattag atcttcatga agctgagtga cgtcattttg 420  
tcttt 425

<210> 9320

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-A6

<400> 9320

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tatgctgctg gtggtgagct atttgaaagg atctgtaatg ctggaagatt tagtgaggat 120  
gagggcagat ttttcttcca acaactgatt tcaggagtta gttattgccca ctcaatgcaa 180  
atatgccata gagatttgaa actagaaaac actctcctgg atgatagtat agcacctcgg 240  
ctaaagatat gtgattttgg ttactccaag tcctctgtgc tgcactctca accaaaatca 300  
actgtcggga caccagctta cattgtcctt gaggtccttg ctagaaagga atatgatgga 360  
aaggtcgccg atgtttgggc atgtggagtt actctgtatg tgatgc 406

<210> 9321

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-A7

<400> 9321

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accaccagt gcctcctcgt cgacgatctc gtagcggcgg cgcacatggc gagcgacggc 120  
gcggcggcta cgccagcgaa ggttacccca aagaaggcca atctcctcga cccgcactcc 180  
atcaagcacc ttctcgacga gaccatctcc gaagtcgtga agagtaaggg ctacaccgag 240  
gacacgcggc tgggcaactg gaagctgggg atcggagcct gcgtgattgc tgtcgccctc 300  
ctcgctcagt ttaccccaa gaagttgccg cagaaccgag atttctcctc tggctgcac 360

gccctgtatg tgggtgctgaa tgtggtgctg ctgatacctta gctacaccaa ggagaaggat 420  
gccatc 426

<210> 9322  
<211> 431  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-047-Q1-K1-B1  
  
<400> 9322

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tggccttgggt tttctggccc ctggttgcaa cccccgcttc agtacaagcg gcgctgtggc 120  
tgccagacac cancgtttca tctaccgtct negttctata tgccgcctac gttctatctg 180  
ccgccgcagc agcagccgca gccatggcaa taccctactc aaccaccgca gctaagcccc 240  
tgccagcagt tcggatcctg cggcgctggc agcgctggca gcccgcttct gggccagtgc 300  
gtcgagtcc tgaggcacca gtgcagcccg gggcgacgc cctacggctc gccacagtgc 360  
caggcgctgc aacagcagtg ctgccaccag atcaagcaag tggagccgct gcaccggtag 420  
caggcgacat a 431

<210> 9323  
<211> 397  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-047-Q1-K1-B10  
  
<400> 9323

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ccttgggtatt aagcctcttt ttggaccatc tgtcattaaa ggcctaattg gactttcaag 120  
gatctgaact agtcaggaag atggaccatt gcttatgctt atgctttgca tgatgaatct 180  
tgccgacttc aagctatcat cgagcatgta ctcatctgt acaaaatcgt acatgatact 240  
ctttgtaatc ataataagca ccatctggtg caatctacac tagctgtagc tctgaataaa 300  
gaattccttt gcatgttaaa tatgacagaa tcagaaccaa tagcaagcac atgtgtatgc 360  
caatccaata taacagtcgt gcttctctta tgcctta 397

<210> 9324  
<211> 416  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-B11

<400> 9324

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at ttggccag ctagctacaa caagccccgc ttccttcttg acacatcatc aattgcttcc 120  
gttctaccag cagtttgtgg ctaacccgcg aaccctttta caactgcaac agttgctgcc 180  
ctttgtccaa cttgctttga caaacccagc agccttctac caacaacaca tcattggcgg 240  
tgccctcttt tagattgctt attagttgtc attcaataat gaagtttttt ggctgatgta 300  
tgtggcctcc tagaaataag aagttatatt tccaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360  
aaaaaaaaaa aaaataaaaa aataaagatc atagctaaga tgaagttgaa caaaaaa 416

<210> 9325  
<211> 422  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-B12

<400> 9325

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ccatatcagt cgttgctccc atctgctacg cacatctggc agctgctcag gttggccagt 180  
tcataaagtt cgatgagatg tcggagacgt cctccagtca tggcgggcat acttcggcgg 240  
gcagcgttcc ggtccaggag ctgccgcgcc tgcattgagaa agtgaggagc tcgatgttct 300  
tttgctgagc cgtggtttta cttttttggg ggatggtgaa cccctctagt tatgtcggta 360  
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at 422

<210> 9326  
<211> 428



<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-047-Q1-K1-B2  
  
 <400> 9326  
  
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 gaggcggcag cggcggcggc aacaccggtg acgccgacag aggggacggt gatcgcgatc 180  
 cacagcctgg aggagtggag catccagatc gaggaggcca acagcgccaa gaagctgggtg 240  
 gtgattgact tcaactgcaac atggtgtcct ccgtgccgcg ccatggctcc aatttttgcg 300  
 gatatggcca agaagtcccc aaatgttggt ttcctgaaag ttgatgtcga tgaaatgaag 360  
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 gacgtcaa 428

<210> 9327  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-046-Q1-K1-G12  
  
 <400> 9327  
  
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 gaaaacccaa ttgttcaacc ctacaggatc caacaggcaa tcgcaacagg catcttacca 240  
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 ttggtggcac aaaac 315

<210> 9328  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-046-Q1-K1-G2  
  
 <400> 9328

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cacgtccact ttcactctca caataacgct gcccaggcgc agccatgatt taattagaaa 180  
cttattgtca aaggaagttt gtttattttt ttatatggtc gtgcgcactg gttaattcag 240  
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catgatatat gtttatactc tgttgctccc tcttttatgc aatcttgcaa aggggatgct 360  
gccgaaattt tatatatgga cgtcggaagt gtagtacagt agcaaaaaat aaaaataggg 420  
aaaa 424

<210> 9329  
<211> 397  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-046-Q1-K1-G3

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atgatacatg tatatggaaa tggcgaggac tctgaagctg tccagaacgc tgctaggaaa 180  
tttgatttga acatcaattt tttcaagggga aaggaccatg cagatgattc actccatggg 240  
tacaaggttt tcgtcaatcc aagtgttagt gatgtgctat gcacagcaac agctgaggcc 300  
cttgcaatgg ggaaatttgt agtctgtgca gatcatccat canacgattt ttttaagtca 360  
ttccctaact gcttaacata tagaacttca taggaat 397

<210> 9330  
<211> 422  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-G6

<400> 9330

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 aatgaccatt ttacttcaat cccgttttct tcagttctgt gtttggtctg actaacgatt 240  
 tgtattcaat gtttttttct gtctttccta aagctcttaa aggcaagaaa aaattgcaca 300  
 acgaaaagca caagtctcga tctgaaaggc ctcaccgcca atctaataac accgaactgg 360  
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 ag 422

<210> 9331  
 <211> 354  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-046-Q1-K1-G7  
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 ttgatttgga gaacggccga atgctggcct aagtgttact ttatatgtct gaagttagaa 180  
 gtttgaggag gaattattgc tgctgcctct tactgcctag aactttatgt tatgatgttt 240  
 aaccacatgg atcccggtg cacagtgcta taatatgttg ctgttaaaac tatgtgtcga 300  
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<210> 9332  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-046-Q1-K1-G9  
 <400> 9332

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 cggcggcctc gcctgggcca cggacgacca ctccctccac aacgccttca gcacctacgg 180  
 cgaggctctc gagtccaaga tcctcctcga tcgggagacg cagagggtccc gcggcttcgg 240

cttcgtcacc ttctccacgg aggaggcgat gcggaacgcc atcgaggga tgaacggcaa 300  
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<210> 9333

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-H12

<400> 9333

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 gaacgtggag aaggctagag cggccttcct cgccaggtgc aaggccaact ccgaggctac 180  
 cctcggcacc tacaagggtg atgctgccgt cgacaccgag agccttcacg tcaaggacta 240  
 caagtattga gttgcttctc tttgcgatcc cgttgttttg aaactcctgc ctgcgagtag 300  
 gttgctgagt gttgtttgct tgtagagct tttatatctg aacataaaaa aaacatgctt 360  
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<210> 9334

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-H2

<400> 9334

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 ggcgttacag acattgatat ggtgggtaat ctgaaactaa gagaagatgt tatagtagag 180  
 aagtgccttg gcagaaggat ttgcggccaa tgtggaaaga acttcaattt ggccctgcatt 240  
 gatgttaagg gtgaaaatgg actcccacca atctacatgg caccactgtt gccccaaac 300  
 aactgcatgt cgaagcttat taccgagct gatgataccg aagaggtggt cagaaatcgg 360  
 cttcagatat ataatgacat gagtaaacct gtggaagggt tctaccg 407

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 <211> 440  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-046-Q1-K1-H4  
  
 <400> 9335

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ctccttgccc ttgctattct agggacaaca tcggctgctg gttgtgtaca agacgcggaa  180
gacatgaaac gagagtgcaa gcagtttgag ctattcccag cgaacccaaa gttgccaccg  240
tcggcagcat gttgtgctgt gtggaagacg gcagatgttc catgcctatg caaatatgtt  300
aacaaggaag tagagaaagt atggtgcatg gaaaaagttg tgtacgtcgc caactattgt  360
aagaggccgt ttcaacctga ctacaaatgc gggagttata cagttcctct tagtatgtaa  420
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<210> 9336  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-046-Q1-K1-H6  
  
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gtccacaaac cagcatacta tgtactttgg ccagcctgat ctaacaatag ggtcttcttg  180
agctgctgtt tatcgacatt ggccaacccc aacaatgatg tatccccatt gctatgataa  240
tgtagtcca atgatgtctc aggttcctct gtaccagtct ttcaaccatg attaggagat  300
tctgcttgct ggaaagttgg gaacaattct ctgttgaaact tgctatgttg tgtagtccta  360
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 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-H8

<400> 9337

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gctgctgggt gtgtacaaga cgcttaatac atgaaacgag agtgcaagcc agttgagcta 120

ttcccagcta acccaaagtt gccaccgtcg gcagcatgtt gtgctgtgta gaataggtca 180

taagttccat gcctatgcaa atatgttaa 209

<210> 9338

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-G11

<400> 9338

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cttagttctg aacctcaaat tactgaacat cgaatacagc cgaacgatca atttgttata 180

tttgcttctg atgggtctatg ggagcacctc agcaataagg aagcagttga ccttgtccaa 240

agtagtcccc gaaatggaat cgctcggagg ctagtgaaag ccgcgatgca agaagctgcc 300

aagaagaggg agatgagata ctacagacctc aagaagatcg accgtagtgt gagaaggcat 360

ttccacgacg atataactgt cgctcgtggta ttactcgatt cggatgccat ga 412

<210> 9339

<211> 355

<212> DNA

<213> Zea mays

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<400> 9339

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taagtgcagg cacatctgtt cgtccacgca gtgatagcct tgccctccaa tctatatata 180

ctctatcacg tgggtcaaaag agcagtgtgtg attcgctaaa ctaatctgac gactctgccc 240  
atcatgatac ttgacgtgac tcctaaccgt ctogagacgt acactgttga ggcgctaadc 300  
gcgagctgac aggtcgctca gagagggttg ctgatcgctca ggtacgatga gcata 355

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<211> 395  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-E7

<400> 9340

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cctcaatgtc ccaacacttt cttctggttc tataaaactc aatgttgaaa actttggccc 180  
agtaatgcaa aaatcaacga tgtcaagcga agaataaaa aatatcggtg tccaagctaa 240  
agaacacatc ttggccggtg acattttcca agttgtttta agccagcgtt ttgagagacg 300  
gacattcgcc gacccttttg aaatctatcg tgcattgcgc atcgtaaadc ctagtccata 360  
tatggcctat ctacaggcac gaggttgtat tctcg 395

<210> 9341  
<211> 84  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-E8

<400> 9341

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agtttaagta tactatatta caca 84

<210> 9342  
<211> 383  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-F1

<400> 9342

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 cgctgctggc ttcgtccgcg tcggcggcga tcacctgcgg gcaggtgggg tcgtcgctgg 180  
 cgccgtgcat cccgtacgcg acggggaggg ccagcgcgct ccccgcgctg tgctgcagcg 240  
 gcgtcaagag cctcaacagc gcggcgcgga ccagcgcgga ccgccaggcg gcgtgccgct 300  
 gcctcaagag cctcgccaac agcgtcaaga gcgtcaacat gggcacgctc gccaccatcc 360  
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<210> 9343

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-F11

<400> 9343

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 ctctgacact gccactacct ctaatgacca atccaaggcg gaagattcca gtgtcacaaa 120  
 gaagcgcgct gcaagctttt ggtttgatga ggatgggttg tttacaacg atgatgaagg 180  
 gagggcggaa aggcagcagt gtgctattgc agcctccaat ataatccgca atttctcttt 240  
 tatgccagaa aatgagatta tcatggttca acataggcat tgcttggaat ctatatattca 300  
 ttgcttagaa aaccagaata gaggtaaata ttgaaatatt gtctcgctc tttgtttttt 360  
 tagtttatag attaaacttg tgatgggtcaa atgaggctat gtgaatgtgt ttggcacttc 420

<210> 9344

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-F12

<400> 9344

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 gaaaaccag ctcttcagcc ctataggctc caacaagcaa tcgcaacaag catcatacct 180



ttatcaccct tgttgttgca acaatcgtac agccctatct atgggtgcaga cattgagtag 240  
 ataccatcaa ggcacaggac ctgcaatacc tegtgtctacc tgtgatcaac caagtagctc 300  
 tggcacacgc ttgtgcctac tctgagctac atcaatgcat tgcattcaac ctactgtcta 360  
 cactgaaccc tactgctaac ggcgagcaac aactattacc attca 405

<210> 9345

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-F2

<400> 9345

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 atctagcccg ctgcgtgtgg ccaatgcacc tacatacctg caacaagaat tgttgcaaca 180  
 gattgtacca gctctaactc agctagctgt ggcaaaccct gttgcctact tgcaacagct 240  
 gcttccattc aaccaactaa ctatgtcgaa ctctgttgcg tacctacaac agcgacaaca 300  
 gttacttaat ccattggcag tggctaaccc attggctgct gccttctac agcagcaaca 360  
 attgctgcca tacaaccggg ttctcttgat g 391

<210> 9346

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-F3

<400> 9346

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 gctggtgggt cagcgagccc gacgtcgacc gcaaggcctc cgacttcac aacaacttcc 180  
 accagaagaa ttgaagggtc gcgttctctg ctagctgcga ctgctaccgc ttccccacgc 240  
 cagcatagca tgcaatatgc atatatatgg tcgacgacga cgatggcaca cggccggcag 300  
 caccaccgcc cgccgccgcg ccggtccacg ctatgcatgc atgcagctac gtttcattta 360

ttaccagggtt ctttgatatt tctatatata t 391

<210> 9347  
<211> 392  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-046-Q1-K1-F4  
  
<400> 9347

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catcattggg ggtgccctct tttagatttc ttatgagtta tagttcaata ataaagtttt 180  
ttgtctgatg tttgtggctt cccagaaata agaaagtaca tttctagatt ctaaaaaaaaa 240  
caaaataaca tgcaatatgc atatatatag acaacaacaa caatggcaca acggacgaca 300  
acaccaccga ccgacgacga gccggtcac gctatgcatg catgcaacta cgtaacatat 360  
attaccagggt tctaagatat tcttatatat at 392

<210> 9348  
<211> 394  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-046-Q1-K1-F5  
  
<400> 9348

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ttggcaaaat ctcaactggg gctcagaatg acctggagaa agttacaaaa atgacatatg 240  
cacaggtcgc cgtgtatggg tttagtgaag aggttgggct tctgtccttc cccagaaaag 300  
atggtgggtt cgaattgagc aagccttaca gtaatcagac agcatccatc atcgacgatg 360  
agggtccgga atggtttggc aaggcctaca agaa 394

<210> 9349  
<211> 433  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-F6

<400> 9349

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gccatggcgc tgcgtgccct gtacaacgag atccggagca tgaaggcccg cgacgtgccg 120

gcttacctga agccgcgctt gacctgagac aacgtcaaga agagcgccga ccaggccgtc 180

gaccgctaca tcgagaagta catcgacacg agctcgccgg accctctcta ccacgtctgc 240

atcggaggga tgatcttctc ctacttcgtc aatctgccct gggagcgcg cccactcgcc 300

cacctcgagg agatggagag gaccgggtggg aagcactaga tccgctgacc cgtccctcgc 360

cggcagcgcg gtaggacggg tgactctcat ggggtccatt caagctgatg gcttctggta 420

tcttctgctg gtg 433

<210> 9350

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-F7

<400> 9350

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gaattcgagc tcaagatatg ctatcattat tacatattct taatttgcta atactttcat 120

tttggttatat aaaattcatt gacgaacact ttaaccatt aatccataag tttttcatgt 180

ttaccgacta ctataaacat tattgggttac catctaacaa tcaccttttg gccattaca 240

tttacaaagc tgttttaatc caaccttacg aaagacggtc attcaacgac cctctgaaa 300

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<211> 411

<212> DNA

<213> Zea mays

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<400> 9351

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agggaggtgg tgcagatcct gacgagcgtt ccaaaaccgc catctaccaa gcagggagag 180  
gagaattcta ccaagcaagg agaggaggtt ccgaattccg gcgacggctc tgcgcccagc 240  
cctctacact cagcaccagt tgggaccaac gaagcaccag ccgtcgaagc gagagaccac 300  
cagcagcaga caagctctcc gtcgtcgcca ccgcctccag atctcatcag catctgagta 360  
accggaatcg aaaacgttac cgttcctcgc aaaaatcccc gcttcagtgt a 411

<210> 9352

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-E5

<400> 9352

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catcctgacg cagcaggcct tcgtggcggg ggacaaggac gccccgatca accaggacct 180  
catcagcaac ttcttgctcg accctgtcca tgggtgccatt gaggtctgcg ccgagctgaa 240  
gcccaccgtc gacatctctg tgcttgccaa cgccgacttt gtgcgcccgg agctccggca 300  
gtcttcctag attgaggcag tgagcggaga gggagagggg gagagaaaga gaggatttcg 360  
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<210> 9353

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-G1

<400> 9353

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tagggaggcg cccaagcggg actcgagtga ggggcagtaa agccggcttt atgtgcctag 180

aaactagtag ctagtgtttg ctgctgtcga atgacactat gcaatgtgat ctggaacctg 240  
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 ccccgtaagg gatgctgcct ggcaaggcct cgggtgtcca ccctgtctgt ggcgttgggc 360  
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<210> 9354  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-046-Q1-K1-D12  
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 cagtggatga cctgccatat actgtacaat aggggaacaag atcaaacgat gatcgcgtaa 180  
 caggtctact agacgagaaa cttcacaatg aggtaagatt ctatgaccac atgcagcgtc 240  
 aaattttacaa gcgcaggctc aagttattac atactattca tgttgaatcc agtgatttcg 300  
 atcttgagat tcactatgcc tttcatgatg aacctcatat actactagct tagatagtca 360  
 tgacgatagc taggactatt atagtgaagg cctgcaatca cactgatcat tgctagat 418

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 <211> 221  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-046-Q1-K1-D2  
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 tagagggagg tgtgtttcag gcgggtgaaa attcaagttg tacagttgaa ctcaccagga 180  
 ttggaaaatg gtcacaaatt caaatttgag ttgtttttct t 221

<210> 9356  
 <211> 373  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-D3

<400> 9356

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gcgcgagcct ctccgtcccc atcgccgctg agatggatcc gtcgtcggag ccctgtacg 180  
cgcagggtga gccgtacgac tccgggttcc tcaaggcttc cgatgtccac accatctact 240  
acgagcagtc cgggaacccg cagggccatg cggccgtgtt tctccacggc ggtcccgag 300  
ccggcacgct gcccggaac aggaggttct ttgaccgca gttctacagg atcgttctgt 360  
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<210> 9357

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-D4

<400> 9357

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ggccgtcatg ccaaggcgag gtctagcggc acagggtcat ggacctgcag tgctggcagg 180  
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gtggcagcag cggcgccgtt ggcccggtcc ggcggggcac cgggctccgg atcggtgct 300  
gccagcagct ccaggacgtg agccgcgagt gccgctgcgc cggcattcgg agcatggtca 360  
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<210> 9358

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-D5

<400> 9358

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 agtgtgagca ggctgactat ggaagtgaag ttgaaggctg cgcagatgat gagaaccctg 180  
 gcaagagggc tgcttttagtt actttgggtg gaaatgaata ctgcggcgac gaggattaga 240  
 gagttcaagt gctcaccatt gtcaagaaag gcgagcatgc agatgacatt gtcgaccgga 300  
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<210> 9359

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-D7

<400> 9359

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 tgctcacttg ctctagtgc cattattcca cagttcctcc ctccagttac ttcaatgggc 180  
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 caacaaccaa ttgccaatt acaacaacaa tccttggcac atctaaccat acaaaccatc 300  
 gcaacgcaac agcaacaaca atttctacca gcactgagcc aactagctgt ggtgaaccct 360  
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<210> 9360

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-D8

<400> 9360

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 ctgtaccaag ccaacaaagt tcagcactga cgctgatgg aacttatagg gcgcccttgc 180  
 taggtggagt tccttctgct gggtacctag acacgacata ttatgggtat gacagcacag 240

gggcacaatt tgcattggtat gatggctctg cttatgcaaa tggacagcaa agaacaacca 300  
 caactaatcg ttttccatcc tgcgtcattca gtggtaaatgg ttcattctgca atatatcaga 360  
 acaagagctc caccacgcag cagatgggta tgcagaatag aagacctaca actccatcag 420  
 cagcttctac cta 433

<210> 9361  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-D9

<400> 9361

cccacgcgtc cgctcttcat ctctggcaca aagatgcgca ctcttgccaa gaaccgagag 60  
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 agcttggtgc catctgaggg cagcagcaag ctgcgtgaac caattgcagc ctaaactctgg 180  
 aaaatccttc atataaggaa tgctactata tcttagcaag cggttctttg cgacatagaa 240  
 ccgatgctat gtgattgtat actggctgta agactttaaa acactaggct tgattcggat 300  
 gttaatgtgt gctttgtacc cgggtgtacct tctctgctgg cagtgttgca catgcactgg 360  
 agcacatcaa acgtttggtg ttaataagga caggctatgt atcctctgcc agattgta 418

<210> 9362  
 <211> 377  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-E1

<400> 9362

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 agaagggcat cccctatctg aacacgtatg atggccgcac catccgctac cctgacccgc 120  
 tcatcaaggc caacgacacc atcaagatcg atctggagac caacaagatt gtggacttca 180  
 tcaagtttga tggttggaac gtcgtcatgg tgactggcgg aaggaacact ggccgcgtgg 240  
 gtgttatcaa gaacagggag aagcacaagg gcagctttga gaccattcac gtggaggact 300  
 ccctgggcca ccagttcgcc acccgatatgg gcaacgtgtt caccatcgcc aagggttaata 360



agccgtgggt gaaccct

377

<210> 9363

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-E10

<400> 9363

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gcgagcaag atgtcgtggc aggcgtacgt cgacgagcac ctgatgtgcg agatcgaagg 120

acagcatctc agcgccgccg ccatcgtcgg tcacgacggc agcgtttggg cgcagtccga 180

gagcttcccc gagttaaagc ctgaggaggt tgctggtatc ataaaggact ttgatgaacc 240

tggtactctt gcaccaactg gtcttttcgt tggaggtaca aagtacatgg tgatccaagg 300

tgaacctgga gttgtcatcc gaggaaagaa gggcactggg ggcattacta tcaagaaaac 360

cggcatgtcc ttgattattg gtgtctacga cgagccaatg actccagggc aatgcaa 417

<210> 9364

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-E12

<400> 9364

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catggcacac gtgcaccggc cacggagccg cgccgtgctc gcggtcgccg tcgccgtcgc 180

cgccgcggcg ctctctcttt ttgccgcagc gggcgctccc cgtgcggccg gccagacgac 240

gacgacagcg gtggtggatc tggacagctg ggccgatcgc ggcgcggcgt gcacggggcg 300

ggtggaggcg tgcggcggca tcggcgcgac ggccaggacg gagctgggtt ccggcgggta 360

catcagctac gacgccatga gccgcggggc cgtgccgtgc tcgtaccgct gcgcgt 416

<210> 9365

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-046-Q1-K1-E2

<400> 9365

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cgtgtgcctg gctctgtcag ctgccagcgc ctctgcaatg cagatgccct gccctgctgc 120

ggggctgcag ggcttgtagc gcgctggcgc cggcctgacg acgatgatgg gcgccggcgg 180

gctgtacccc tacgcggagt acctgaggca gccgcagtgc agcccgtggt cggcggcgcc 240

ctactacgcc ggggtgtggc agacgagcgc catgtaccag ccgctccggc aacagtgtctg 300

ccagcagcag atgaggatga tggacgtgca gtccgtcgcg cagcagctgc agatgatgat 360

gcagcttgag cgtgccgctg ncgncagcag cagcctgtac gagcc 405

<210> 9366

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-E3

<400> 9366

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cagctgtctg ggccgcgggt ggtggcggct gcgaaaccgg ctgcgttggg cgggctcctc 120

ctgacgccgt cccttgccgt gccaaagggg cggagggcca ggggcctcgt ggtgagggcc 180

gccacggtcg tgtaacctaa gtatactcc ataaaaccat tgggagacag agtacttgtg 240

aagatcaaaa cctctgaggg taaatctgat ggaggtatct tacttccagt atcagttcag 300

acaagaccac aaggagggga gattgttgcg gttggagaag ggagaagttt tggaagt 357

<210> 9367

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-E4

<400> 9367

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gtaatggcta tgagccggta ccacccctctg gtaaaacaag ccaactcttc catttcgcca 120  
 agggaaaaat ggcggctcgc tgggctagac ttcgtgcagc tgtggcagcc tcagacatct 180  
 ttactctccc ttatgagcta tctggctatt gtagcttttc caatgagact gtcaccgcca 240  
 atcctccatt tgcattggctt cgctacaaca aggatgatat tgaagatctg gaggccttcc 300  
 tactcgagaa aaagattatc actcgaggtg gcacaagggt tggagtggat gcaagggctg 360  
 tcagaagtag tatggttgac aca 383

<210> 9368

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-D11

<400> 9368

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 atggtatccg tctacaacgg cattccccat ctgtgaccaa ctatctaaac tctgcgctct 120  
 accgttgggc tggtagatgcc aatacatttg atggcgacac atgtattgag ctcgtctgct 180  
 ccccaaacaa ccctgatggg ggcctccgga agcctgtcat caaatccaag tctagcaagc 240  
 ctgtttatga ctctgcctac tactggccgc agtacacacc catcaccgag gcagctgccc 300  
 atgatatcat gctgctcact gtctacaaat gcaccggcca tgccggcacc aggctgtggt 360  
 gggcattggt gaacgatact aagggtggctc agaagatgat caagcttata gagctc 416

<210> 9369

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-B6

<400> 9369

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 cgctgagcaa gatcgcttgc aatcggtcgc acaaagagct cgccgagtgg cagccaaacc 120  
 cccccgtcgg gttcaagcac aaggctctacg ataacctcca aagggtgggta attgaggtca 180  
 ccggagcggc cggcaccctt tacgccggcg aggettacca gttgcagggt gacttcctctg 240

agcattatcc tatggaggca cctcagggtca ttctttctcaa tccagcgcca atgcatccac 300  
acattttacag caacggggcac atctgcttag atattctgta tgactcgtgg tcgccagcga 360  
tgaccgtgag ctctgtctgt atcagtatcc tgtctat 397

<210> 9370

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-B7

<400> 9370

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cgtgcgcaaa aaaacaaacc atcctcgatt cgaccggagg ggaaggagac gcgccgggag 120  
aagggggaag agacgcggcg accatgtctc cgatctgggt gttcgggtac ggctcgtga 180  
tctggaaccc aggcttcgcc tacgacgacc gcgtcgtcgg ctttgtcagg gactaccgcc 240  
gcgtcttcta ccaaggagc acggaccaca ggggcacgcc gcagttcccc gggaggaccg 300  
tcacgctcga gcaccagccc ggaacgactt ggtggggagt tgcttacaga ataaaagagg 360  
gaagataaag ggatagcttt ggagtatctt ggagtca 397

<210> 9371

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-B8

<400> 9371

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tcggtccctt atgctccttg ctctttctgc atgtgttgct aacgcgacaa ttttccctca 120  
atgctcacia gctactatag cttaccttct tccgccatac cttccatcaa tgatagcttc 180  
agtatgtgaa aaccagctc ttcagcccta tgggctgcaa caagcaatcg tagcaagcaa 240  
cataccttta tcacccttgc tgtttcaaca gtcgccagcc ctatctttgg tgcagtcatt 300  
ggtacacacc atcagggcac 320

<210> 9372  
 <211> 393  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 cgccgacggg ccgccataac cgactaccgc aagaagctgc tcaactgcag ggagctcgag 120  
 tcgcgcgtcg gcaccgtgag agaaagcctt aaaaatgcaa agagggattt taccaagact 180  
 gaagacgact tgaaatctct gcagagcgtg gggcaaataa ttggagaggt tctccgacct 240  
 cttgataatg aacgctttat tgtgaaggcc agcagtgggc cccgatatgt ggtcggttgc 300  
 cgaagtaaag tagacaagga gaagttgaca tctggaactc gtggtgtact tgacatgacg 360  
 accttgacaa taatgcgcac tcttncacgg gag 393

<210> 9373  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-C10

<400> 9373

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 acgagcgcac accagggtag agtacgtatt gctcgtgatt tgtgtaacta cggagcaagc 120  
 tgcatacagc acaagataga agatgggtat ccttgagagg atcaaggaga ttgaggccga 180  
 gatggctcgg actcagaaaa ataaagcaac agaatatcat cttggacaac tgaaggcaaa 240  
 actagcaaag ttgaggacac aactattaga gcctccaaag ggttccagcg gaggtggaga 300  
 tggttttgaa gtcacaaagt ttgggcatgg tcgtgttgca cttattggat ttcccagtg 360  
 tggaaaagtca actcttttaa cgatgttgac tgggacacat tctgaagctg catcatat 418

<210> 9374  
 <211> 413  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-C11

<400> 9374

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cccggaacca tcaacagtgg tcgtggtgct gaattogaag gggctgtcat tgcactgttc 120  
catctgttga ttacgagaac cgatacagtg ctcgctcttc gtgaggcttt ctaccgccag 180  
aaccttaciaa atgtgaccaa tttgcttgcc actgtcttgg tgttcctcat agttatctat 240  
ttccaaggct tccgtgttgt gcttccagtg agatcaaaga atgctcgtgg ccagcaaggc 300  
tcatatccaa ttaagctgtt ctacacttca aacatgocca tcattcttca ctctgcgctg 360  
attaccaacc tctattttat atcccagctt ctctacagga agtacagtgg aaa 413

<210> 9375

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-C12

<400> 9375

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ggcccaagca tacctagggc ccttgagctc cctcccgcat ggcgttcccg cggagcctgt 120  
cggatacggc cgacgtaccg cctgtggcgc ccgcgcccgg ctccctttagc gtgtgcgcgt 180  
ccgtgaccgg actcacgcgt gtgccggttc tcaccggcag gcggcgcaag tggagcacgc 240  
tcgtggtctg ctcaggacac gactaggaga agattaccaa gcggtcagcc gtcgatttga 300  
ccatcgaatg ggagagacca aagcctgtga cgagacctga tatcttcctt aagtacaggc 360  
caatgaagac accattaccg catgcgtgac cagctgacga tccgatggat gatgatcaa 419

<210> 9376

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-C2

<400> 9376

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gagttctggc gcggcacagg agatagcgcc tcgatcttca tccctgggtg gcaaacaatg 120  
agctacttct ccgacctcgg cggcatctgt tggttcctgg agcctggatt cgagcgcgag 180  
gtgcggcgtc tccacaggct cgtggggaat gccgttgtag acgggtacca tgtgctcgtc 240  
gggacaagct ccactcagct ctttcaagcc gtgctgtacg cgctcttaac ttgcagtgc 300  
ggcacaacca ttgacctcgt ctcaccggca ccggactact cgtcttacct atctgtgacc 360  
aactatctaa actctgcgct ctaccgttgg gctggtgat 399

<210> 9377  
<211> 375  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-C3

<400> 9377

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cctgcaacaa caattgttgc aacagattgt accagctctg actcagctag ttgtggcaaa 120  
ccctgctgcc tacttgcaac agctgcttcc attcaaccaa ctgactatgt cgaactctgc 180  
tgcgtaacct caacagcgac aacagttact taatccacta gcagtggcta acccattggt 240  
cgctgccttc ctacagcagc aacaattgct gccatacaac cagttctctt tgataaaccc 300  
tgtcttgtcg aggcagcaac ccacgttgg aggtgccatc ttttagatta catatgagat 360  
gtactcgata atggt 375

<210> 9378  
<211> 321  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-C4

<400> 9378

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tggaattact gttaggcctc aacagttgga ctccactgtg caaccaaacc atgtgttcgc 120  
tagccagggc aatgcaacac ggaggctgcg gctacagggt gagtgtaggg agatcataac 180  
taaagatgag agtgaagatg aagtatcatg tgttctaact ccagactgtt tgaacgattc 240

tgttgaggag tccactgcag agaaggatgt ggcttctgat ggggatgagg ctgagtcaac 300  
aaggattggt attagaagcc a 321

<210> 9379  
<211> 330  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-046-Q1-K1-C5  
  
<400> 9379

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cagccagcta gctggtgtga gccctgctac cttcttgaca caaccacagt tgttgccgtt 120  
ctaccagcac gctgcgccta acgctggcac cctcttaca ctgcaacaat tgctgccatt 180  
caaccaactt gctttgacaa acccagcagc attctacca caaccatca ttggtggtgc 240  
cctcttttag atttcttatg agttatagtt caataataaa gttttttgtc tgatgtttgt 300  
ggcttcccag aaataagaaa gtacatttct 330

<210> 9380  
<211> 405  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-046-Q1-K1-C8  
  
<400> 9380

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tgtctgcgca tgctaggtat gcatggcacg gtgtatgcaa attatgcagt ggataatgcc 120  
gatctgttgc ttgcacttgg tgtgcggggt gatgatcgtg tgacagggaa gattgatgct 180  
tttgcaagca gggctaagat tgtgcacgtt gatattgac cggctgagat tggcaagaac 240  
aagcagccac atgtgtacat ctgagcagat gttaagcttg ctttgcattg catgaatgct 300  
catgttgaag gaagcacatc atagaagagc ttggactttg gctcatggaa cgatgagttg 360  
gatcagcaga agaggggaatt cgccttgag tataaaacat gtaat 405

<210> 9381  
<211> 415  
<212> DNA



<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-C9

<400> 9381

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tgctgctgcc gctggcggtg ggcgacaagc acgcgcacgg aggcggcggg gagcggccgt 120  
gggcgcggcc gtggcggtgg gccaaagaccg ctttcttcgt cgcggcgatg ctggcatcgc 180  
tcctgctcgt ctgcgcgcgc cgcgtgctcg tcgtgctcct cgacctcgcg ctcccgcgcg 240  
cgctcctcct ccgcggcggg gatggcgggc gcggtcgcct cgcgctggcg gtcgtggccc 300  
aggcgcgggc gttcgacttc cgctcctcgc tcgtcgacct gcccgccgtc tccgcggcgc 360  
gcgcgctgct catcctctgc gcgtacgtgg cgtgcggcgg aggcggcgcg tacct 415

<210> 9382

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-D1

<400> 9382

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gactacgata actactgtaa gcccatgtac cgtctggacc caacgacagc tgatgacctg 120  
ataccagcac tcttggcgta acactctcac actgttacia ctgcgacata cgctggcatt 180  
gaactcaact tgcattcacg ataccctaca ccattctacc aacagctcat aattgttgtg 240  
accgtccttt aactatgccc taatacaacc agaacaatat taagaggcta tacactatct 300  
ttgccgatct ccagacgtac gaacaggcat ctctcaaagc ggcagcaggg gggaaagaag 360

<210> 9383

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-D10

<400> 9383

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tgcaagcgcc acctccacgc atacaagcgg cggtgcagc tgccagccta cggcgccggc 120  
 tgatttaccg acaacagtgc atatgccaac tccggataag ctgacagcta cggagcatct 180  
 cacaccgccc attcacctgc cgacgccggt acacctgcaa ccggcagaac atgtgccgac 240  
 gccggctcat ctgacgacgc aactatgcca gtaccctact gaaccgagcc ggcgtgagca 300  
 tgatccccaa gcacacacat gcgcgcgcca acagccggat ccaagcgcac gccagatgca 360  
 tggaacctgc agcgttggca ggacgccgac cctgagacag tgcgaagag 409

<210> 9384

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-B4

<400> 9384

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 caacaggcgg aagtaattct tgctgatggg aaattaacag aggctaaggc tgaccagctt 120  
 gctaagattc aaaagcaggt cggtttgcct actgaacatg cacagaaaat cattaaggggt 180  
 attacaacga caaagttatc ttctgcaatt gaagcctctg ttgctcgggg tcagatcgggt 240  
 atacagcagg tccgaagatt gaaggaagca aacttccaac tagatagctt gattgcggaa 300  
 ccgcagcgag aaagcattta taggaaaact gttgaagagc tcttttttca ggtacagggg 360  
 atttcgatga agaggaaatg tatg 384

<210> 9385

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-H9

<400> 9385

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 gcatacaagc ggcggctgcg gctgccagcc accgccgccg gttcatctac cggcgccgggt 120  
 gcatctgcca cctccgggtc acctgccacc tccggtgcat ctcccaccgc cggtcacact 180  
 gccgccgccg gtccacctgc caccgccggt ccatgtgccg gcgtcgggtc atctgccgcc 240

gccaccatgc cactacccta ctcaaccgtc cgggctcag cctcatcccc agccacaccc 300  
atgcccgtgc caacagccgc atccaagccc gtgccagctg cagggaacct gccgcgttgg 360  
cagcaccctg atcctgggcc agtgcgtcga gtttctgagg catcagtgca gcccgacg 418

<210> 9386

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-A1

<400> 9386

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tggaaatcgg gaatttttaa aagcgtgctg ctaatcatgc aaaggagcct aagaatgtaa 120  
atcgaatatc actgacgact aataaagtac aacctgatca atcagcaagc caaccaaacc 180  
atgttgccaa tgcctaaaag taccgaggtc ttattacata ttagctagag agtatttctt 240  
acatacatcc aaaacaaccg tttaaattatt gataggatat tgccatcgaa tcaacacctg 300  
gttcactatt aaatacac 318

<210> 9387

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-A10

<400> 9387

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gaaaaaaaa ataaatacac aaaaatgcaa cgatgctatt cttcaataaa gataccgtaa 120  
ttcaattcac taggctcata actttacaac gtcgtcactg agaaaacatt tggtctacca 180  
tcagcttaaa aacaattgca caggtaagac tttaaccaga tggactttta tca 233

<210> 9388

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-A12

<400> 9388

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ttgacctgtg ccttgaccgc atcaggaagc ttgcagataa ttgcactggg ctccagggct 120

tcctcgctctt caacgctgtt ggtggaggaa cgggctctgg gcttggttct ctctcctgg 180

agcgcctgtc tgttgactat ggcaagaagt ccaagctcgg tttcacctg taccatccc 240

cccaggtgtc cacatccgtg gttgagccat acaacagtgt cctgtccacc cactctctcc 300

tcgagcacac tgatgttgct gtctgctcg acaatgaggc catctatgac atctgccgcc 360

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<210> 9389

<211> 94

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-A3

<400> 9389

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<210> 9390

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-A4

<400> 9390

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ggcacagatg tttaacttat gaaatggcac gactgccatc atgtcggaca ttacagttca 120

catgagattg aatacaagaa tgctgtaa at gatgctttga agaccgctct tgataccttc 180

tgactctgta accaactata tgactcagat atggatgggtg accaggagta ttagatagcg 240

cacttactgt gcactctaca caatgctgca gacaattcaa atgagagctt aagaagggtt 300

gctgacagtt ctagcgatca ctgtttgttg cctagtgtc aggatcatga tcaatc 356

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<211> 323  
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 <213> Zea mays  
  
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 taatacccga aactgtaact ttgtgctcta ttcagagcac atcatcccag agaaccaata 180  
 atttctacta ccaattgtgc actgagtcca ttacgcctac ctttgcgacc cggacatcca 240  
 atatgcaatt tctacaatcg ctactgcatg tgcaagatcc gaccagattg cacattacat 300  
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<210> 9392  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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 gaggggtgttg gatcataaca gcattgtagc tgaggtcacc aagcaattgc aagcccgttt 180  
 cttgccaaat cctgttgtca taaagaaacg cattgaatct ctgattgaac gagagttctt 240  
 ggaaagagac aaagtagata gaaaattata tcgttatctt gcatagaaaa ctgtcatgag 300  
 ataattcatt agcagttggc atccttctgc tcttgtaaaa cggttttctt tatgctcgag 360  
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<210> 9393  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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<400> 9393

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ttaccccata tgataagttc tgcccattct acaaatccgt ttggatgatg cgcaatatta 180

ttcacttcaa cacattggca aatcaggctg tggagcgggc agctggtact gatggccaaa 240

agataacata cgggtgtcata aaacaccgtt tgggcgatct attttatcgc ctagtatctc 300

aaaagttcga ggatcctgcc gaaggtgaag aagctttggt cggcaaattt aagaaactgg 360

atgatgacct nacca 375

<210> 9394

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-B10

<400> 9394

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cgcagttgac cgggtcctcg gagcacgatg aagtttgttg ctgcctactt gcttgctgtc 120

ctcgctggga acgccagccc ctccgctgag gatttgactg ccattctgga gtcagttggc 180

tgtgaagttg acaatgaaag gatggaactc ctgctgtccc aactgagcgg taaggacatc 240

accgagctca ttgccgcggg cagggagaag tttgcttcag tcccatgtgg tggcgggtgg 300

gtcgctgttg cggcagcttc acctgctgct ggcggagctg ctctacagc tgatgcaaag 360

aaagaagaga aggtggaaga gaaggaagaa agcgatgatg atatgggctt cagcctctt 419

<210> 9395

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-B11

<400> 9395

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tccgcatcgc ctccggggac ttcgggattg acaacttcct cgagtggcca acctgtggct 120

gcggggttcga ctgcaacgac ctgctcatgc tccagaaggc ggtggcagcc accgccaggc 180  
 tgcgcctgcg agtgccttct aaaattccac tcatgcaaat ccagatggga tagaagttca 240  
 gac 243

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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-046-Q1-K1-B12  
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 gctagagcgg ccttctctgc ctgggtgcaag gccaaactccg aggctaccct aggcacctac 180  
 aatgggtgatg ctggcgtcga caccgagagc cttcacgtaa aggactacaa gtactgactt 240  
 gcttctcttt gagatcccg agtattggaa ctctgcctg cgagtaggtt gctgagtgtg 300  
 gggttgcttg tagagctatt atattctgac atgaaaaaaaa catgcttcct atgtggatga 360  
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<210> 9397  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-046-Q1-K1-B2  
 <400> 9397

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 aagggggaag agacgcggcg accatgtctc cgatctgggt gttcgggtac ggctcgctga 180  
 tctggaacct aggcttcgcc tacgacgacc gcgtcgtcgg ctttgtcagg gactaccgcc 240  
 gcgtcttcta ccaaggagc acggaccaca ggggcacgcc gcagttcccc gggaggaccg 300  
 tcacgctcga gcaccaacct ggaacgactt gctgggaagt ggcttacaga ataaaggagg 360  
 aagataagga gatagctttg gagtatcttg aggtcaggga gaagcaatat gatgag 416

<210> 9398  
 <211> 415  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-B3

<400> 9398

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caggaagtat gagaggttga gaaaagagag ggaggaaaag agagcgcagc gtgatcggct 180
tcgtcaacgt gcagaggcgc aggctgctta cgacaaggcc aagaggaagg agcaatcgtc 240
aagtcgctca tcaggagggtg catctaccag aggccttcct tggaggatgc cctgtgggtg 300
gttcacctaga gggatgcccc gtggagggttt cccccggggg ggcatgcctg ggggtttccc 360
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<210> 9399  
 <211> 413  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-H7

<400> 9399

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ttggaaatat gatccgccgt ctagctgaca tggctgacac tcagttcatt gcgaccacat 120
tccggccaga gattgctaaa gtggctgata agatatatgc cgtgagacac aagaataggg 180
tgagcaacat cgacgtggtg tccaaggagg aggccttgga cttcatcgag cgtgatcaga 240
cgtacaatgc tagctgaggc tgctgctgct gtgtattgat tgatctgcag gcagatgcta 300
acgcagacag gatagttcct gttgcgttat ggatattctg gcctattgtt gtagctgtgt 360
atatgtgtga tgcagttagg tagctattgg accagcttgt ttggcgcac aac 413
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<210> 9400  
 <211> 318  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3059-045-Q1-K1-G11

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taacattacc atctgctgca tgaacgattg acttatgtat caagaggatg atataatata 180  
tagtatacaa tgaacgctga tgcaatacag tcaaaatgga ctagataatt accgcacaca 240  
tagcataatt atatatacga ttgaccgtcg aggaattgat aaggatcaac cagaagttga 300  
aaaatatcac ttaatgaa 318

<210> 9401

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-G12

<400> 9401

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aagtcgtcgt cgctctcgag ctcggcgcag cgggcagctg ccgcactgct cgtggccgcc 120  
gccgtggcgg tgctccgtcct ggtggtgggc gcggcgccgg tgtgcgacat gagcaacgag 180  
cagttcatgt cgtgccagcc cgcggcggcc aagacgacgg acccgccggc cgagccgtcg 240  
caggcgtgct gcgacgcgt ggcgggggcg gacctcaagt gcctgtgcgg ctacaagaac 300  
tcgccgtgga tggggtctta caacatcgac cccaagcgcg ccatggagct tccggccaag 360  
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<210> 9402

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-045-Q1-K1-G2

<400> 9402

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agatggcggg tatgggcgat atgccgatga ggccggcgcg gccgggcccg ccgatgcagc 120

accgtggtcc gccccgatg gcgcgccttc gccccgaacc aatcgaccgc gagaagacct 180  
gtcctctgct gctcaggggtt ttcacaaggg ttgctgggtca ccacaaaat gaagagtttg 240  
cagtgagagg gaaggaacca aaggatgaag ttcagattta cacatggaag gatgcgaccc 300  
tncgcgagct cactgatctt gtgaaagagg ttgctcttcc agcaagaaaa aggaatgcaa 360  
ggctttcttt tgcatttgta taccagaca agaatggtcg ttatgttgc agacaggtgg 420  
gg 422

<210> 9403  
<211> 409  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-045-Q1-K1-G3  
<400> 9403

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ggcgctcatg aacgcgctcg cgtactcgt gaagaacgtt ctgcagaagg tgatgccgga 180  
gctgtggaag gacatcaacc acaagatcca ccagaactgg atctataact ggatcttcct 240  
cacgctcttc gtcagcacct acgactacgc cttgtaatac accgtgtatg acaaggttta 300  
cgacaagttt tacatgagat gttatatgca ctgagcttta gagactgaca ttggatttaa 360  
catttgcatg atcaagttta gttaaccgcc tatatgtatg tatatatc 409

<210> 9404  
<211> 417  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-045-Q1-K1-G4  
<400> 9404

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attgaattga cgccaagttt gtttacatct gctgtcgata atgcatacca gtccatacat 120  
gaattttcaa agcctttgat caacatgatg aaggctgcag gttgggatct tgatggggct 180  
gccaatgcga tcgaacctgg tgtggtttac acaagaaggg ctcacaagaa gtttgctttt 240

gaatcctata tttgccaaag aatgttcagt gggttccaag aggagagctt ttctatcaag 300  
gattctaaca tcagtgtttc caatgaggct ttcttcacc aattccttgc agtgcgagcc 360  
atggatcctc tggatgtcct gagccagaac cctgattcag tattcggaag gttctgt 417

<210> 9405

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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tttacgcccc ttttgacctg taactactca cgttcataat gtcttattgg ttgcgcgtcg 180  
gacaggtctc ccaccaaatt taccgattcg gcttcctaaa catgcggatg aggacggcta 240  
cgctgctgaa ggaattcctc tcagatccgc tgctgacggg attccgctca ggtcaccaag 300  
ggctacagat tcatttcgct cgatcatgat ccccgctgag atttgcagtc gcaactcaat 360  
cgtgtcactt gaaggctcat acccagcang cgtcagtcct atatatacat gg 412

<210> 9406

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-G6

<400> 9406

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cctcaatgct cacaagctcc tatagcttcc ctttttcccc cataccttcc atcaattata 180  
gcttcagtat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgagca 240  
agcaacatac ctttatcgcc cttgttgtgt caacaatcgc cagccctatc tttggtgcag 300  
tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc tgtgatcaac 360

caagtagctc tggcaaacct ttctccctac tctccgcaac aacaatttct tccattc 417

<210> 9407  
<211> 238  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-G7

<400> 9407

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cctccacggg ggtcagctag ccatgcttca cttatactgc tgttgaacct atgtatcagc 180

gtcgtcttgt gccaaactgg gtacctatat atagatgtag tcctctaata aacatctg 238

<210> 9408  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-G9

<400> 9408

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cgtcttaggg cctctacgac acctgcatca tcttcttcga cggcgccatc gtgcagatca 180

acaagcatct aactactttg gacgatgctc tgattcgcac gaaatggatg aactgcaaga 240

aagcaatctc tgaagaagtg gaaattgtga aacaggtgga tgctcaatta aagtccctta 300

aagaagctcc tgcgacacgg cggatcatcat cacctgctat tcgggctaata aatcatttg 360

ttttccaacc gttggatgag tatgcaacat cttcaccagc accctttgat gatcctgatg 420

agtg 424

<210> 9409  
<211> 402  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-H10

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ctgcctactc tcagcaacaa caacttcttc catttaacca attggccgca ctgaaccccg 180

ctgcttattt gcagcagcaa atactactac catttagcca gctagctgca gcataccgtg 240

cttccttctt gacacagcaa cagttgctgc ctttctacca gcagtttgcg gctaaccccg 300

caaccctgtt acaactacaa caattgttgc ctttgtcca acttgctttg acagaccag 360

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<210> 9410

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-H11

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aatgggacta tgggagtcca aaacatatta catttaacca attggacgaa ctgaaaccac 180

gatgattatt tgcagcagaa aatactacta accatttagc cagctagctg caagcaaacc 240

gagcttaaatt tgggacacca gttcaagggtg ccgaatttat actagcagtg agcggataac 300

caagcatccc tattacgact acaacaatga gtgcacgtac gtgcaacttg caatgacaga 360

cccagcaaac ccctaccatc aacacat 387

<210> 9411

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-H2

<400> 9411

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cgaagagggtt attatgggat gtagttcgag gaggtccaaa agagcgggaag catctggccc 120

aggtggaac aaggagagca gaggatggca gtacccatcc ttctggccat ctggcagcca 180  
 acaggatcat catgggtaga agagcagcaa cacatccctg cctggcactg tatgtgccgc 240  
 accacctttg catgaagcca accttggaga gggcaaccga aagcagagag acacctgaca 300  
 tcatcattac tagctacat gataagatca tcatataaac ctagctacac tgctgtacct 360  
 accatatcta ggcttacaat 380

<210> 9412

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-H3

<400> 9412

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 agagttgacg gacaaaccaa gctggatgca cagccagagc tggtatccac attgtcccgc 180  
 aaggtaaca cacactgcaa tcatcgacag tgcattggta tgaccaatca gacctgtga 240  
 caaccttggc accattgcgc ggtcaggcac gaaggaattc atggaggcac ttgctgctgg 300  
 tgctgatgtg tccatgattg gccagtttgc tgctggtttc tactctgcct acctgtttgc 360  
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<210> 9413

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-G10

<400> 9413

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 ctacattcta tcagctgcct gatccattga gttatgtccc ataagacgat atagtatatg 180  
 ctataaaagc catcgccgtc acacataggg aaaatggacc aactgattac cgcattgata 240  
 gcatgattaa gtatacagat tgaccgtcgt ggaatagata ggtatcggac tgaagttgaa 300

aaatatta

308

<210> 9414  
<211> 410  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-045-Q1-K1-E5  
  
<400> 9414

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ttcgcatctc acgaacgaag cgccgccatc tgatccgaca cgcagcgcaa tggcggcggg 120  
actgaagagg ccgtcgttcg ggacgcgggc gtggcggtcg ctgcggctgg cgggtgctgtg 180  
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gcgcgagtac tccatcgacg agacgcgggc gttccggttc cgcacccgt ccgcgcgcgt 360  
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<210> 9415  
<211> 416  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-045-Q1-K1-E6  
  
<400> 9415

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gatccaatcc gtgaagctct cactggtaga gatctgattc ctgagatggg taacgggttaa 180  
gataaccgaa caacactttg ttttggaggc atgcataagg tcctcatctc atgtaaattg 240  
accaggaggg gacctaagga gggaatgccg gggcaagatt acagtggaat gtactgcgca 300  
ctgttaactg tgggctctac cgaggtgtca gcagcacttc tgcgtgtaat gggaggcgat 360  
gtggccgagc tgccactagt tgctacaagc caggatgttc aagggtggg ctactt 416

<210> 9416  
<211> 179  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-E7

<400> 9416

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gtggcagcct gagaccagac acgaggatgc tgaccgagtt cagcggctat gagttggagg 120  
tatccagagg agctagttgt ggctgctaga catacgactt ctgccaagac taacgctta 179

<210> 9417

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-E8

<400> 9417

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tcttgaggta cttccaagtg aagcagctgc cgaactttct cttggcctca ccagtgcctt 120  
ctctcgcggt ttattctatt gtccattacg caaaactgct tcaccgggtgt ttccagagaa 180  
ctagcgtcca cacgcagatt atcactgctc tagagaaaag gccagttgtg tcgtatagaa 240  
gatcagatga cgcgacaatt ttgagtgaac ctctgctggt actaccaag aaagcacaag 300  
ggagctctaa ggctaaacag agaaaaccag ttgctaccga gatagctcct gcgacattgc 360  
atgacagtac cagccagct aacaaaaaca tctaagagga tcaggacgcg tgctc 415

<210> 9418

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-E9

<400> 9418

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tcaacactgg ctataaagct gatgatttcg ctgatgacgc actctacaaa aaagagctga 120  
ccgaggatcc ttatgatcag agcaccctat atgaagtggga ctaagacttc agaattgtatc 180  
ggtctggcag gactgatagg aagaaatgac ctgatgacaa tgagtctata gaagattacg 240



aatgttatat gggtgaaatg attcagcgaa cgaaagctga ttgatctcca gatgggatga 300  
 ttgactgcta atgtcttaca tcgagacata gagcctttca aagcatgggt ggggatggcg 360  
 aatgata 367

<210> 9419  
 <211> 413  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-045-Q1-K1-F1  
 <400> 9419

cggacgcgtg ggctcgggaa ctggattcct gtgtcaacag atctattgat gacagcctca 60  
 gggtccttcc gcatgtggtg gatcagatca agtcaccct caaatcaat tagaggcact 120  
 attactttta gcaaatgaac cagatatagt tgagaatgtt tcatattcac attcgctgca 180  
 taactccaca ttttcagagc tcttaccgat attgatagaa catgatcacc ctatcgtagt 240  
 tttttggatt ctgctcttac cacctagtcc tggcatgtca acagcgtcga cattttgaac 300  
 tctactgaga acacagctta ggcattgaaa ggctggatga acttggtgtg ctacatgtac 360  
 aagaatactc ttacgtcttg tgattaaaaa aaaaataaat aaaataaata aat 413

<210> 9420  
 <211> 408  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-045-Q1-K1-F10  
 <400> 9420

cgcaccaag cccgtgccag ctgcatggaa cctgcggcgt tggcagcacc ccgatggtgg 60  
 gccagtgcgt cgagtttctg aggcattcagt gcagcccgac ggcgacgccc tactgctcgc 120  
 ctcaagtcca gtcgttgagg cagcagtgtt gccagcagct caggcagggtg gagccgcagc 180  
 accggtacca ggcgatcttc ggcttggtcc tacagtccat cctgcagcag ccgactccat 240  
 gccctacgc tgctgccggc ggtgtccgac actgaagaaa ctatgtgctg tagtatagcc 300  
 gctggctagc tagctagttg agtcattcag cggctacgat tgagtgataa tgtgtcacgc 360  
 atcaccatgg gtggcacagt cagtgtgagc aatgacctga atgaacaa 408

<210> 9421  
 <211> 380  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-045-Q1-K1-F11  
  
 <400> 9421

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 tcgtaatcaa agaaatatgc atgactggta acatcgctat gagacatgaa atgatgggtg 120  
 caacagccca tttctggcga tatcgtgctg cttattacc agacctgatt gaagcggtga 180  
 cgatacatgc accgacattt gtatatagga caaattacgt catttctagt caaacataca 240  
 atgcttctac tgatgcctat gctgtggaat catacgatag ctatttactg aaccatgtac 300  
 tctatgctca ttgcagtgtt ctggatgaag atgatgcgac tgaacatcga tcggatactc 360  
 tttccattct tgtgaatgac 380

<210> 9422  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-045-Q1-K1-F2  
  
 <400> 9422

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 agatcttctt cgcccgtta gccgacgacg agcaccacca gggcaaccag atacttcagt 120  
 ggcttcgcaa ggatgtcctg gtgcactatt gagtctgac ctggtgtgtt cactgagctg 180  
 attcagcaaa tgcaagtga aggtgtacag gttgaagagc tttactctct cgatgtgggc 240  
 tctcttagtc aactgcggcc agtatatggg ctaattattc tttcaagtg gataccggc 300  
 gagaacgatg aacggctctgt tgtcagagat cctaaccxaa accttttctt tgcgcaccaa 360  
 gtcacacta atgcatgtgc tactcaagct attctctcag ttctcatgaa tc 412

<210> 9423  
 <211> 412  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-F4

<400> 9423

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cgcatctcgc ccttgccccg cctcgcgatct tcggctccca atcctcgctg ctgctgctcc 120  
cgcgccgcgc gtcgcccgc cccgtctccc tctctcaccg ccgcatcadc gcgcccgctcg 180  
cgaccaagga acccgagctc ggcggcgggc gatcgggggc cggcgacggt gccggaggga 240  
gcgccggcgcg cagcgacccg aggggaggag ggcaggaagg agacggggag gaagagaaga 300  
tggggcaggg cctgtccatg tcgcagaaac tcaccctcgc ctacgccgcg ctgctcggag 360  
ctggtggtgt aatgggatat atgaagagtg gaagccagaa atccttggtc gc 412

<210> 9424

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-F6

<400> 9424

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caacaatttc ttccattcaa ccaactgtct aactgaacc ctgctgctta tttgcagcaa 120  
caactattac catttagcca gctagctact gcctactctc agcaacaaca acttcttcca 180  
tttaaccaat tggccgtact gaaccccgct gcttatttgc agcagcaaat actactacca 240  
tttagccagc tagctgcagc aaaccgtgct tccttcttga cacagcaaca gttgctgcct 300  
ttctaccagc agtttgcggc taaccccgca accctcttac aactacaaca attggtgccc 360  
tttgtccaac ttgctttgac agaccagcg gcctgctacc aacaacacat cattg 415

<210> 9425

<211> 108

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-F7

<400> 9425

cccacacgta ccatacaag ttgagtttta acaaagattt gccagaattc cggtcgggaa 60

ttacaatcac ttaccttgct actaattaca taaatgaatt attctaca 108

<210> 9426

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-F8

<400> 9426

cccacgcgtc cgagtacgcg ttggattaaa aaaaacaaaa acataactgc gggaaggaaa 60

acgtaaggga aaatcttgca acgaagctga aaggaccagt acagatcaca tgattctaca 120

ctccactacc atctatagca cgctaggggt gatcttctat caagtccaag ttgaactgat 180

cagtattcac aatggctacg attgatcatg gtgtaatttg catgcaatgt atgacctgtt 240

ggagaacaac tgctgatgag gtagaac 267

<210> 9427

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-E2

<400> 9427

ggaaccactc ctttttcatc ctgtggtaag tacggccctg gttgagaacc gccaggggta 60

tcttatcacc agcatccaga acaaggcaca cgaactggca aactgtccaa tgctcgtgac 120

gttgtgtgag gaagctggag agatcctctc gaacatgaat catccagcaa gtgattgacc 180

atgggtgtcta tatccgttaa tgtgagagga taagggtgac tctgaggtgc catctatgaa 240

gccgatgtca tgctaccatt gctgccacag tgactgcatt atgagatggg gggaatggct 300

ccaacatggg gacacacacc cagaggagca cactactgga gctcatacta gcattataat 360

gtgaatcatc caagacgatt ttgtactgta tgccgcacag tgttcgatga gaaggatatt 420

<210> 9428

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-D1

<400> 9428

aaatattttg gccccctata cccattgagc caattggaaa tgcttcttcc ggctgcaatt 60  
ttcccgcaaa gttaccagcc tccttatcat acatttttat cgcgtacctt ttaccagcgt 120  
tgactctcaa atgtgaaaac ccaattcttc aaccctacac gatccaacat tctatggcat 180  
cacgcatctt acctttatca cccatgatcc ttcaacaatc atcaggccta ttacagccta 240  
tccatttggg gcattttattg gcgc aaaaca ttatggcaca acaactcgtg ctagcaaacc 300

<210> 9429

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-D10

<400> 9429

gccacgcac agaaaaccta ctccattgct cttttcttat agccgccgcc ggaacggggt 60  
gctagcgctc tgagctctca tactagcgctc cgtggaaggt cgtctagaca tggctctccga 120  
gacggagacg ttcgtctaacc agacggagat caaccagctg ctatcgctca tcatcaacac 180  
cttgtactcc aacacggaga tctaacttag ggagctcatt tcaaactact acgatgcata 240  
gaataagatc aggttcgata gttagacgga caatagcaag ctggatgccc atcctgagca 300  
tttaatccac atcgtcactg acaaggccaa caatactctg acaatgattg acagtgtcat 360  
aggatatgacc aagtcagacc tagggaacaa ccttggtgcc attgcacgat ctggcaca 418

<210> 9430

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-D11

<400> 9430

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cgacatggcg ccgatcttag taatcgcaac gaaccgaggg atcacgtata tccgcgggac 120  
aaactaccgc tcgccgaatg ggatcccgcc agaattcctt gaccggctac tgattatcac 180  
gacgcacccc tacacggagg atgagatccg gaagatcctg gatatccggt gcgacgagga 240

agacgtggag atgtccgctg acgccaaggt tctgctcacc aagattgggtg tggagacctc 300  
tctgcggtat gccatcaacc ttatcacatc tgccgcgcta gcctgccaga ggcgcaaggg 360  
gaaggtggtc gagatggagg acattagccg ggtgtaccaa ctgctcctgg acgtgaagcg 420  
g 421

<210> 9431  
<211> 196  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-045-Q1-K1-D12  
<400> 9431

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aaaaacaaga catgataaca agctaaccta tactacaaat aaaacatcat acgatatcat 120  
ctataatatc ttacgcattgt taaaactgag ctattcaatc atatacgctt cagcaagcaa 180  
tctcagcacg caacat 196

<210> 9432  
<211> 386  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-045-Q1-K1-D2  
<400> 9432

cgaacgcgtc cgcgttgaca accgctaaat cgtttccgcg tcccgcgaca ggacgggtaa 60  
gctctggaac accctcgggtg agtgcaagta caccatcgga ggtgacctcg gtggcggcga 120  
gggccacaac ggggtgggtct actgcgtcag gttctcccca aacacatttc agcccaccat 180  
tgtctccggt tcttgggacc gcaccgtcaa ggtctggaac cttacgaact gcaagctgcg 240  
cttcactctc gatgggtcatg gcggatatgt taacgcgcgtc gtcgtgagcc ccgatggatc 300  
gctctgcgcc tacggcggga aggacggtgt tactctgctg tgggatttgg ctgatgggaa 360  
gaggctgtac tcgctggatg cgggct 386

<210> 9433  
<211> 407  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-D5

<400> 9433

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tcagcaacaa caacttcttc catttaacca attggccgca ctgaaccccg ctgcttattt 120

gcagcagcaa atactactac catttagcca gctagctgca gcaaaccgtg ctctcttctt 180

gacacagcaa cagttgctgc ctttctacca gcagtttgcg gctaaccccg caacctctt 240

acaactacaa caattgttgc cctttgtcca acttgctttg acagaccag cggcctccta 300

ccaacaacac atcattggtg gtgccctctt ttagattgct tattagttgt aattcattat 360

taaagttttt tggatgatgt atgtggccaa ccagaaataa gaagtta 407

<210> 9434

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-D6

<400> 9434

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tatccctcct tgcgcttctt gcgctttttg cgagcgcaac aaatgcgttc attattccac 120

aatgctcact tgctccaagt tccattatta cacagttcct cccaccagtt acttcaatgg 180

gcttcgaaca cccagctgtg caagcctata ggctacaaca agcaattgcg gcgagcgtct 240

tacaacaacc aatttcccag ttgcaacaac aatccttggc acatctaaca atacaaacca 300

tcgcaacgca acagcaacaa caattcctac cagcactgag ccacctagcc atggtgaacc 360

ctgccgccta cttgcaacag cagttgcttg catcaaacc ctttgctctg gcaaa 415

<210> 9435

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-D7

<400> 9435

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 ataggatcct gctgctacat tcgcccattgt tccacgcgtc tcaggtctta ttagccgcat 120  
 gccactcatg agcttgaata tgcataactca tagagcatgt catgagtata taatgacata 180  
 gacagagagg agccgtaagt gtaaatacag gaagggtata tgctatatat gcgacgatca 240  
 aaa 243

<210> 9436  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-045-Q1-K1-D9  
 <400> 9436

gaaaaggccc tgatcattgg tataaaggag aggtcgttgg gctggcgact cgcattggatg 60  
 aatTTTTact gtgtgcgagg cacttctggg agccggggac cgtccgcggg aaggcatggc 120  
 acagttggct cttaagcttt cctgactttt ggttcttcta cattgaggct gttgaccatg 180  
 gagccttttt ttttgagtag tagaagtatg caaattgaac catggaagtt ctatacgacc 240  
 cacaatccgg gtcaacattt tgttgtagat atacatgtct ggtagttctc tgttgtcctc 300  
 ctggtcgacc cgaactcctt attaagagct gatacttggg acccatggta tgcattgtgaa 360  
 attctgctcc atgtacagag agtagaaaag aaaatgaaag ccgtgctagc tgttat 416

<210> 9437  
 <211> 367  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-045-Q1-K1-E10  
 <400> 9437

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 gcagttacct ttggtgcatt taatggcacc aaacattcgg gcaccaccac ctacaacaac 120  
 ttgtgctagc aaaccttgct gctactctc agcaacagca gtttcttcca ttaaaccaac 180  
 tagctgcatt gaactctgct gctaatttgc aacaccaact accattcagc cagctagctg 240  
 ctgcctaccc ccaacaattt cttccattca accaactggc atcattgaac tctcctgctt 300



atacacagca ggcacatctt atacaatata cccatatctc tggtagagac tgttggtgtt 360  
 ttttcac 367

<210> 9438  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-045-Q1-K1-E11  
 <400> 9438

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 gtaaagtgtt tcctgtcgaa ccctggcgga tatgcaaccg cagcaagaac tgctgggtgat 120  
 gcacaggcta gggatcaact tgagcgagtt attgaatgcc ttgagacaga caagtgtgag 180  
 acattccaag actgtattac ctgagcccg cttagctag aggattatct ctgcaaccgt 240  
 gtcaagcagc tgacattcac tttacccgaa gatgcaatga ctagctcctg tgctccttac 300  
 tgatctgctc ctaagcggtt ccgcgcacct ctgcagttct cgtctagcga ctcaagtcac 360  
 ctttaacttct tgatggctgc atctgtatta atggcagaga catgtggaat ac 412

<210> 9439  
 <211> 411  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-045-Q1-K1-E12  
 <400> 9439

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 tccttaattg ctaacaggct ccaatagctt ccttttttcc ccaatacttt ccatcaataa 120  
 tagcttcagt ttgtgaaaac caagctctta aaccatatag gcttaaacia gcaatcgag 180  
 caagcaacat acctttatcg cccttggtgt gtcaacaatc gccagcccta tctttggtgc 240  
 agtcattggt acaaaccatc agcacacaac atgtagaaac tctcgctcta cgtgatatca 300  
 accaagcatc tggggcaaac ctttcttact actctcagca acaacttttt ctattataca 360  
 aacaacttac tatgctgaac gctgcttatt atatgcaaca actattacca a 411

<210> 9440

<211> 401  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-045-Q1-K1-C9  
  
 <400> 9440  
  
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 gacgtagcca cg ttgtactc tatcgcttac ttggaacaac tgctggttgc attcaaccga 120  
 ctcgctttgg caaacgtagc tgcataccaa caacaacaac atgttgcaac agttggtgtc 180  
 agggctcaat caactagtca tgggtgaacat ctatcgacta cctacaacag cggcagcttg 240  
 catcatttag cccgatcact attggcaatg catgtacata catgcaataa caggcggttg 300  
 aacaactgaa gctgtaacaa attgtaccag ctcttactga gctagctgac tcaaaccctg 360  
 ctgcctactt gccacatcta ctgcatcca accaactgac t 401

<210> 9441  
 <211> 407  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-045-Q1-K1-B5  
  
 <400> 9441  
  
 aaggatccca ggcagatatc tggccatcta cttattcaaa atgcagagtc aactgtttac 60  
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 catagagaat gttacgcaac agtacaataa tatagtaaca catcttcagg aaagtattag 180  
 caggaagagt tgtcacagaa atgttctcaa aacggcctaa aagggtgcag gcatgggcaa 240  
 gcggaacaac tttcaatcac aagttcttga acgcagactc atgaggaagc ttctgcggcg 300  
 ttagcctagc caacaatgcc ttgttcgaga agtggtcagc atcaacaaag tagaagttcc 360  
 cctcagcctt aaaggtgaca aagggcctgt ttgtttcagg aggcctg 407

<210> 9442  
 <211> 410  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-045-Q1-K1-B7

<400> 9442

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tcgaccatgg ctacccttat ccagtttgag aacaactgtg aaattggtgt tttctccaag 180  
ctgacaaatg cttactgtct ggtagcgatt ggagggtcag agaacttcta cagtgccttt 240  
gaggctgagc ttgcagatgc catccctgtg gtcaagacct ctattggtgg cactagaata 300  
ataggccgac tttgtgttgg aaacaagaat ggacttctat tgccacatac tacaaccgac 360  
caagagcttc agcatctgag gaattgcttg cctgatcaag tgggtggttca 410

<210> 9443

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-B8

<400> 9443

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gaagcctgtg agcagacaaa gacacttgcg aagtgcatac aagcgctatg ttacagaggc 120  
aatcgggctg tcatatctcg attattaccg tgatctagcc gtacaaataa agtcatctga 180  
tcgtgataag agactgagcc tactacgaag gttcttcttc tgggttgaga acttgtgcca 240  
tgagggagcc tacatgcctt ggatctccaa acctctagct tgcaacccca tttcaccgga 300  
tggatgaata tgaaccgacg ccactctca tcctcaagac acacgaagat gagccctagg 360  
ggtgagcggg tagcagagat ttgcttgcag catccctgca tctctgatgc tacttg 416

<210> 9444

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-B9

<400> 9444

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aggcgccggc cggaagaag cccaaggcgg agaagcgtgt ccagcaggc caggcccgcc 180  
gccaggaagg ccgccaggga aagaagggcc cgagaaagg ccaggagAAC cttgagacct 240  
tccaggacca ctttcttcaa gggcctgaac caggtccacc cggccatggg catttccttt 300  
aaggc 305

<210> 9445  
<211> 416  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-045-Q1-K1-C1  
  
<400> 9445

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accccgcca tggaatccag ttcgtccgca acgacgcaa ggtcttcgcg ttttgccggg 180  
caaagtgcca taaaaacttc aagatgaaga ggaaccctcg taaggttaag tggacaaaag 240  
catacaggca tttgcatggc aaggacatga ccaggatac aacctttgag tttgagagga 300  
agaggaacag gccggagcgc tacgaccgca atttaacgga gcagactctg aaggctatcc 360  
cgcttattac aaagattagg catgaccgta tgggaaaaca catctcanac agacat 416

<210> 9446  
<211> 402  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-045-Q1-K1-C11  
  
<400> 9446

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gaagagcggg gttaagggcc caggagctcc accatcggag ggacgaggcc tgcagcttgt 120  
tgaggcgccg aaagttaact cgtgggacag cgtgtggact gagaatggca tgggaaagta 180  
aagggcccggt ttgggcaaga gtgaggcagt tctgctgaaa ggagaggagg acgagtttgc 240  
ttgtggaaga gaaatctgcg aatatctgtt cggatgcgtt ttgcatacgc atagaaggca 300  
taatcaagga accccttatg cctatttgta tttgtcatgt tctttcatgg agtacatata 360

gatcagtgtg caatgagaaa tgtgagcggc taatgtacca ac

402

<210> 9447

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-C12

<400> 9447

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tcattggtac aaaccatcag ggctcaacag ctgcagcaac tcgtgctacc agtgatcagc 120

caagtagctc tggcaaacct ttatccctac tctcagcaac aacaatttct tgcattcaac 180

caactgtcta cactgaaccc tgctgcttat ttgcagcaac aacaactact accattcagc 240

cagctagcta ctgcctactc tcagcagcaa caattgcttc catttaacca attcgccgca 300

ctgaaccctt gtgcttattt ccagcagcaa atactactac catttgacca gctagctaca 360

acaagccccg ctatcttctt gacacaacaa caattgctta cgttctacca gcagtttgtg 420

<210> 9448

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-C2

<400> 9448

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ttgctaacgc gacagcttta cctcaatgct cacaagctcc tatagctccc cttcttcccc 120

cataccttcc atcattgata gcttcagtat gtgcaaaccg agctcttcaa ccctataggc 180

tccaacaagc aatcgcagca agcaacatac ctctatcacc cttgtttcaa caatcgccag 240

ccctatcttt ggtgcagtca ttggtacaaa ccatcatggc acagcagctg cagcaactcg 300

tgctacctgt gatcaacctt gtagctctgg caaacctttc tccctactct cagcaacaac 360

aatttcttcc attcaaccaa ctgtctacat tgaaccgtgc tgcttattcg cagc 414

<210> 9449

<211> 388

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-045-Q1-K1-C3  
  
 <400> 9449  
  
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 cacaaattgc cattgtgctg gcggttctga aaacaagatt gatgtctctc cgcgcacttc 120  
 aatgaacagc tgattcttaa ctaaaatacc gtccatcaat gatagctcca gtatgtgaaa 180  
 acccaactct tcaaccctat aggctccaac aagcaatcgc agcaagcctc atacctttat 240  
 caccctcggt tcaacaatct ccagccctat ctctgggtgca gtcattggta caaactactg 300  
 cggcacatca tctgcagcaa ctctgtctac ctgtgatcaa ccaagtagct ctggcaaacc 360  
 gttctaccta ctctcagcaa cagcaatt 388

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 <211> 268  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-045-Q1-K1-C4  
  
 <400> 9450  
  
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 acaacttata ctcaactaac ataccttcca tcaattataa ctccaatata ttcaacaccc 180  
 atctcttcaa ccctatattc ttcatcactc aatcacatca agctacatac ctttattaca 240  
 tctactttca acaatctcca tccctatc 268

<210> 9451  
 <211> 385  
 <212> DNA  
 <213> Zea mays  
  
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 <400> 9451  
  
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aggatgtact tgggagatcc gttaacggga caacctacgc cggaattcga gcgaggacca 180  
 cgggcgctcc acagaaccac tggtttggcc cggccggtga tccgcgaggc gcatggatcg 240  
 ggactccgga agccatcaaa cttgtctggt cctgccacag ggaagtcata tatgacgtta 300  
 ggcccgtgcc cgagagctgg ggcgattcta tcgcgagctg attagctaga cgacgataga 360  
 ctattccatg tcatcacgag gaata 385

<210> 9452  
 <211> 403  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-C7

<400> 9452

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 gaccagagtt ccaatctctg ttggttttaga tgaagtggca agtttttgtt gtgtgtgtgt 120  
 ctctgataaa aggcaacct atttatgtct gtgacattaa tccaaatatg ctaaagtgtg 180  
 ggaaaaagtg tgttgcagaa agaggccccg agcatgaact tttctaatag attttgttgc 240  
 ctctgtctca agtgtgggtt atgttgttca acagttgggt tttatttcca gggtatagcg 300  
 aagaacattg tcttagctgg atacaaggag atgcataagc tctgagtttt gaggatggat 360  
 ctatggatgg ttacactatc gcatttggga tcagaaatgt gac 403

<210> 9453  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-C8

<400> 9453

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 aaccagctgc ttactgagat ggatggcatg aatgccaaaga agacggtttt tattatcggt 180  
 gcaactaaca gaccggacat cattgaccca gccttgctga ggctgtgcy tcttgatcag 240  
 cttatctata ttcctctgcc cgatgagcag tccaggcttc agatcttcaa agcctgtctc 300

aggaagtctc ctgtggccaa ggatgttgac ttgaatgctc tcgccaata caccagggt 360  
 ttcagcgggtg cagatatcac agagatctgc cagcgcgcgt gcaagtatgc catc 414

<210> 9454

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-A10

<400> 9454

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 ttgattttta aggtggaaat gttcatatta taacaagcaa tgagggctgg gaccagaaga 120  
 ttgcagaagc aaacagagat gggaaaactg ttgttgcaaa tttcagcgtc tcttgggtgtg 180  
 ggccatgccg tgtcattgct cctgtctatg ctgaaatgtc aaagacttat cctcaactca 240  
 tgttcttgac aatagacggt gatgacctga tggacttcag ctcttcatgg gacatccgtg 300  
 caaccccgac attcttcttc ctcaagaacg ggcagcagat cgacaagctc gtgggcgcga 360  
 aaaaacctga gctcgagaag aaagtgctag cagccgctga tgccagtacg tactagtgc 420  
 ac 422

<210> 9455

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-A12

<400> 9455

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 ccaagatggt tgcattgttt gcgtcctag ctctttgtgc aaccgccact agtgctaccc 120  
 atatcccagg gcacttgatc ccaactactga tgccattggc taccatgaac ccatggatgc 180  
 agtactgcat gaagcaacag ggggttgcca acttgctagc gtggccgacc ctgatgctgc 240  
 agcaactggt ggcctcaccg cttcagccgt gccagatgcc aatgatgatg ccagggtatga 300  
 tgccaccgat gacaatgatg ccgatgccga atatgatgcc atcgatgatg gtgccgacta 360  
 tgatgtcacc aataacgata gctagtatga tgccaccgat gatgatgcca aacatggttt 420



cacca

425

<210> 9456  
<211> 314  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-045-Q1-K1-A3  
  
<400> 9456

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cggcgggtgtt cgacaccatg agctccacgg attgcggcgg cggcggcggc ggcgccaaga 120  
cgtcgtggcc tgaggtgggtc gcgctgagcg tggaggacgc caagaagggtg atcctcaagg 180  
acaagccgga cgccgacatc gtgggtgctgc ccgtcggctc cgtgggtgacc gcggattatc 240  
gccctaaccg tgttcgcate ttcttgga ca tgcgtgttca gacgccccac atcgtgtgac 300  
aatatataag ctag 314

<210> 9457  
<211> 419  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-045-Q1-K1-A4  
  
<400> 9457

cccacgcgtc cgagcacaat agtgtaccaa caatggcagc caaaatattt tgcttcgtta 60  
tgctccttgg tctttctgca agtgttgcta ccgcaaccat tttcccacaa tgctcacaag 120  
ctcctatagc ttcccttctt ccccatacc tctcaccagc ggtgtcttca gtgtgtgaaa 180  
acccaattgt tcaaccctac aggatccaac aggcaatcgc aacaggcatc ttaccattat 240  
cacccttggt cctccaacaa ccgtcagccc tattacaaga gttacctttg gtccatttgg 300  
tggcacaaaa catcagggca caacaactac aacaacttgt gctagcaaac cttgctgcat 360  
actctcagca acatcagttt cttccattca accaactggc tgcattgaac tctgctgct 419

<210> 9458  
<211> 402  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-045-Q1-K1-A5

<400> 9458

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tgcttttgta gtgtctgctt ttcagggaca agttactagc ctttcaatgc atacatatgg 120  
ctgccgtgta attcagagaa tctcgtatca ctgcggtggt aactcacaac gtcagtgcatt 180  
aatatacgag atattacagt gcatgtgcat ccttgccgag gatcagtatg gcaactatgt 240  
tacactgcat gttctagaaa gaggtatagc tcatgacagg agccttatta ttactaaatt 300  
cgcacgtcac gttgatacta tgagccaaga taaatatgca tcagatgtga tagagaagtg 360  
tnttcaacat ggagatatag ctgagcggga tcttatgatc ag 402

<210> 9459  
<211> 414  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-A6

<400> 9459

cggacgcgtg ggggtgttgct aacgcgacac atgtagaaag agcaaggagc ataaggaggg 60  
aaaatatctt ggtcgccatt gttgctctat tggtgctact ggattccact ttctatgttg 120  
ctaacgcgac aattttccct caatgctcac aagctcctat agcttccctt gttcccccat 180  
accttccatc aattatagct tcaatatgtg aaaaccacgc tcttcaacca tatacgcttc 240  
aacacgcaat cgcagcaagc aacatacctt tatcgccctt gttgtttcaa caatcgccag 300  
ccctatctat ggtgcagcca ttggtacaaa ccatcatggc acaacagctg cagcaactcg 360  
tgctacctct gatcaaccaa gtaactctgg caaacctttc tccctactct cagc 414

<210> 9460  
<211> 413  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-A7

<400> 9460

cagatcagca aagcggcagt gcgtagagag gatcgtcgaa cagaacagca tgaagatggt 60  
catcgttctc gtcgtgtgcc tggctctgtc agctgccagc gcctctgcaa tgcagatgcc 120  
ctgcccctgc gcggggctgc agggcttgta cggcgctggc gccggcctga cgacgatgat 180  
gggcgcgggc gggctgtacc cctacgcgga gtacctgagg cagccgcagt gcagcccgt 240  
ggcggcggcg ccctactacg ccgggtgtgg gcagacgagc gccatgtacc agccgctccg 300  
gcaacagtgc tgccagcagc agatgaggat gatggacgtg cagtccgtcg cgcagcagct 360  
gcagatgatg atgcagcttg agcgtgccgc tgccgccagc agcagcctgt acg 413

<210> 9461  
<211> 351  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-045-Q1-K1-A8  
<400> 9461

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gcatcttata gtaacttata aagcgcaaga atataaatta ctatgagatg ctcatattcc 120  
tttaaaaaac accatactac atacctagaa cagcactgac atccagcctg acaacaaaaa 180  
taggcacgac gcctattcta cagcatccaa gattacctca ggcatcctgc gagcatcacg 240  
ctgtcgtata gcgccatact actctcaatt gtgtgcccac tatcttcaaa caccaggcgg 300  
gccaaaaaca ttgcttcaca caacttacta ggattataga cattcaacct t 351

<210> 9462  
<211> 284  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-045-Q1-K1-A9  
<400> 9462

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ccatttcta gtagaatccc gtgcttaaga atctggctga tgatgagccc gttatataga 120  
atgccctgc cggaagaat cccaatgcag caaaacgtgt accaacaggc aagtccatca 180  
gcaaggacgg cgctgtggaa aagaaggacc gtaagatgcg cacgaatagc gtggagacct 240

acacgatcta catcttcaaa gtgctgaagc atgtacacca gtac 284

<210> 9463  
<211> 419  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-045-Q1-K1-B1  
  
<400> 9463

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aggatggaat tgccccactt cctaattccg gtgggttttta atatggccat tctgaacctg 120  
ttgggttata ccctaccgct gtatctagta ctaaagcccc gtttgtttcc ttccaagatt 180  
atataatcca gctcgtggat tatataagca cctattgacc tgcttataga ttatcataat 240  
ctagatatcc ggattatata attcacctaa taatctatat tgcttggttta actctcaatt 300  
tatttaagct agattatata atatagatgg taaacaaaca acgactaaaa catattttct 360  
gcaacataaa atttctgagt tcacaagttc aacacagagt acagaatatt atatagatt 419

<210> 9464  
<211> 352  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-045-Q1-K1-B10  
  
<400> 9464

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catgcacgta ggttcattcc aaatatctgt actcagcaat tgactaatcc gattagtcga 120  
aatgctgcgt attgagcaac acacggctct tgaagcatca tatattgcca tgcaaacctg 180  
taaacttagc gtggttcata ttgtgtacag tcagatgacc tgcaactatg acaacttaac 240  
tcacgtagta ctgtcgagct aactaaacta catatgctag taaagcacta attcatatga 300  
tactatagga tgagcatatg cctatttgaa ctgctgatgc tattggatct tg 352

<210> 9465  
<211> 426  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-B11

<400> 9465

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gcgaccattt tcccgcgaatg ctccacaagct cctatagctt cccttcttcc cccgtacctc 180  
tcaccagcgg tgtcttcgggt atgtgaaaac ccaattcttc aaccctatag gatccaacag 240  
gcaatcgtag ctggcatctt acctttatca cccttggtcc tccaacaatc atcagcccta 300  
ttacagcagt tacctttggt gcatttattg gcacaaaaca tcagggcaca acaactacaa 360  
caacttgtag tagcaaacct tgctgcctac tctcagcaac agcagtttct tccattcaac 420  
caacta 426

<210> 9466

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-B2

<400> 9466

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ccttgctctt tctgcatgtg ttgctaacgc gaccattttt cctcaatact cacaagctcc 120  
tatagctgcc cttcttcccc cataccttcc atcaatgacc gcttcagtat gtgaaaaccc 180  
agcccttcaa ccctacaggc tccaacaagc aatcgcaaca agcaacttac ctttatcacc 240  
cctgttcttt caacaatcgc cagccctatc tttggtgcag tcattggtac aaaccatcag 300  
ggcacaacag ctgcagcaac tcgtgctacc agtgatcagc caagtagctc tggcaaacct 360  
ttctccctac tctcag 376

<210> 9467

<211> 179

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-B3

<400> 9467

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 ggtggcctaa ctgcataatg ccggatttaa atagagaggg atggatagac gacacacatt 120  
 atcatgtgtg gtatgaccaa taatatatgc atgatcataa taaagttttg gttttaatg 179

<210> 9468  
 <211> 442  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-045-Q1-K1-A1  
 <400> 9468

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 gcgaagatnn ttgaataccc cannactata caatnnccta caggctnnna caaagaggcc 180  
 anntcgcagc aagggcattc ttaaacgggc gtnntagcat nntgaccggn tccaacaacc 240  
 ccatatgnnn cctattgcaa cccaaccann tccttaatgg gaatctannt atctcnncaa 300  
 agaatcnngg cagcacaaca nacctaccca acaaccagtn ntgctntcca nnataatcan 360  
 anntcaagta gttnnngcag cgaacncttn nngctgctta cnctnncnna gcaacaacca 420  
 nnatttcttc ccattttcaa tc 442

<210> 9469  
 <211> 450  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-044-Q1-K1-G5  
 <400> 9469

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 cctactgcac tggccttctg ttggctcgcc gtgtgctcaa gatccgtggg tcggatcagg 180  
 agtacgaggg caatgttgat gccactgggt aggacttctc tgatgagcca gctgatgaga 240  
 ggaggccttt ccgtgctctc ttggatgttg gccttatcag gactacaaca ggtaaccgtg 300  
 tctttgggtg cctcaaggga gcattggatg gacgcctgga tattcctcac agcgagaaga 360

ggtttgctgg attcaagaaa gacgacaagc aattggatgc tgataccac cgcaggtaca 420  
tctatgggtg ccatgttgct gactacatga 450

<210> 9470  
<211> 445  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-044-Q1-K1-G6  
  
<400> 9470

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cttcacgcac tggaaagggt aaagtccgac atcaatggcg aagcatcatc ctgatctcat 120  
catgtgccgg aagcagcctg gcatcgcgat tggccgcctt tgcgagaaat gtgatggcaa 180  
gtgtgttgct tgcgactcgt acgtgcgccc atgtacgctt gtccgggtct gcgacgagt 240  
caattatggt tcgttccagg gaagggtgtg gatctgtgga ggagtcggca tctcagacgc 300  
ttactactgc aaggagtgc cccagcaaga gaaggaccgg gacgggtgcc ccaagatcgt 360  
gaatctcgga agcgccaaga cggatctctt ctatgagcgc aagaagtatg gttttaagaa 420  
gagatgaccg agaagatgga gctgt 445

<210> 9471  
<211> 231  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-044-Q1-K1-G7  
  
<400> 9471

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cggtacggat tgatgtgtgc gtacgtgatt gaagacggag gcccataagt gcgctgtcag 120  
cactggccat gtgcctggct cgatacgact ccaacgtcct gctgaccgat gtgaccgcac 180  
tctcggcggc tgtcactttc gtcgcggcgc atgaccteta ctcgcggtgc c 231

<210> 9472  
<211> 366  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-G8

<400> 9472

gaaagtggaa tccagtagca acaatagatc aacaatggag accaagatat ttggcctcgt 60  
tatgtccctt gctctttcta catgtgttgc taacgcgaca attttccctc aatgctcaca 120  
agctcctata gcttcccttt ttccccata ccttccatca attatagctt cagtatgtga 180  
aaaccagct cttcaaccat ataggettca acaagcaatc gcagcaagca acataccttt 240  
atcgcccttg ttgtgtcaac aatcgccagc cctatctttg gtgcagtcac tggtaaaac 300  
catcaggga caacagctgc agcaactcgt gctacctgtg atcaaccaag tagctctggc 360  
aaacct 366

<210> 9473

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-G9

<400> 9473

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ctcgcttggg ccacggacga cactccctc cacaacgcct tcagcaccta cggcgaggtc 180  
ctcgagtcca agatcctcct cgatcgggag acgcagaggt cccgcggctt cggcttcgtc 240  
accttctcca cggaggaggc gatgcggaac gccatcgagg gcatgaacgg caaggagctg 300  
gacggccgca acatcacctg caacgaggcc cagtcccgcg gcggccgtgg aggcggcggc 360  
ggtgggtacg gtggtggccg tggaggcggc ggctacggcg gtggcgggcg ccgtgat 417

<210> 9474

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-H1

<400> 9474

cggacgcgtg ggggtggaatc cagtagcatc aacagagcaa caatggcgac caagatatgt 60



tgcgtcctta tgctccttgc tctttctgca tgtgttgcta acgcgacaat tttccctcaa 120  
 tgctcacaag ctcttatagc ttcccttctt ccccatacc ttccatcaat gatagcttca 180  
 gtatgtgaaa acccagctct tcagccctat aggctccaac aagcaatcgc agcaagcaac 240  
 atacctttat cacccttggt gtttcaacaa tcgccagccc tatctttggt gcagtcattg 300  
 gtccaaacca tcagggccca gcagctgcag caactcgggc tacctgggat caaccaagta 360  
 cttttggcaa accttcttcc taattttaag aaccaccatt tctttc 406

<210> 9475  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-044-Q1-K1-H10  
 <400> 9475

caaccatata ggcttcaaca agcaatcgca gctagcaaca tacctttatc gcccttggtg 60  
 ttgcaacaat cgccagccct atctttggtg cagtcattgg tacaaccat cagggcacia 120  
 cagctgcagc aactcgtgct acctctgac aaccaagtag ctctggcaaa cttttctccc 180  
 tactctcagc aacaacaatt ttttccattc aaccaactgt ctacactgaa cctgctgct 240  
 tatttgcagc aacaactatt accatttagc cagctagcta ctgcctactc tcagcaacaa 300  
 caacttcttc catttaacca attggccgca ctgaaccccg ctgcttattt gcagcagcaa 360  
 atactactac catttagcca gctagctgca gcaaaccgtg ctttcttctt gacacagcaa 420  
 ca 422

<210> 9476  
 <211> 221  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-044-Q1-K1-H11  
 <400> 9476

tggtgtttgt tgccagcaag cctgttgga acttctttgc ttttgatatg ccaactgttg 60  
 ttgtgcatgg tgagaagttc aatcagccca tatttctactg caacaacatc tctggattcg 120

ttgaaccagt cgttccagac aatcagaaca gggccctgta ctcaactcac accttcaaga 180  
tcttgttcaa ggaaggcggc tgtggtactt tcgttcctct c 221

<210> 9477  
<211> 129  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-H12

<400> 9477

cgggctcaag gcaccacaac ttgatttact tgtgctaact gggatcaacg gaattggttt 60  
tggcaaactt ttttccttat tttcggaaca accatttttt tcatttaaac caattgttta 120  
aattgaacc 129

<210> 9478  
<211> 448  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-044-Q1-K1-H2

<400> 9478

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caagtcaagt cggagcccgc aggtgtcgac accgcgcgcc gggagccgga agaagggtgg 120  
accatgagcg cgaccgggcg agccccgtgc ggcctgccgc gcatcggcct gggcacggcg 180  
gtgcagggcc cgcggccgga ccccgccgc gccgcgggtgc tgcgcgccat ccagctcggc 240  
taccgccact tcgacacggc cgcgcactac gccaccgagg cgcccatcgg ggaggccgcc 300  
gccgaggccg tgcgcacggn gctcgtcgcc tcccgcgagg acctcttcgt cacgtccaag 360  
gtctggtgcg ccgacgcgca ccgggacagg gtgctcccg ccctccgccg gacgctcagc 420  
aatctccaga tggaatacgt ggacctgt 448

<210> 9479  
<211> 448  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-H3

<400> 9479

cggacgcgtg gggaaccaca ccaagctaag cgcactagca acaacctaac aacaatgggt 60  
acggagatat tatccctcct tgcgcttctt gcgctttttg caagcgcaac aaatgcgtcc 120  
attattccac aatgctaact tgctcctagt tccattattc cacagtctct cccaccagtt 180  
acttcaatgg ccttcgaaca cccagctgtg caagcctata ggctacaaca agcgattgcg 240  
gcgagcgtct tacaacaacc aattgcccaa ttgcaacaac aatccttggc acatctaaca 300  
atacaaacca tcgcaacgca acagcaacaa cagttcctac cagcactgag ccacctagcc 360  
atgggtgaacc ctgtcgcta cttgcaacag cagctgcttg catccaaccc atttgctcta 420  
gcaaacgtag ttgcaaacca gcaacaac 448

<210> 9480

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-H6

<400> 9480

attgagacca acaagcaaca tataaagtgg aatccagtag caacaataga gcagcaatgg 60  
cgaccaagat attttccctc cttatgctcc ttgctctttc tacatgtggt gctaacgcga 120  
caattttccc tcaatgctca caagctccta tagcttccct tcttccccca taccttccat 180  
caattatagc ttcaatatgt gaaaaccag ctcttcaacc atataggctt caacaagcaa 240  
tcgcagcaag caacatacct ttatcgccct tggtgtttca acaatcgcca gccctatctt 300  
tggtgcagtc attggtacaa accatcaggg cacaacagct gcagcaactc gtgctacctc 360  
tgatcaacca agtagctctg gcaaaccctt cttcct 396

<210> 9481

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-H7

<400> 9481

cccacgcgtc cgcggacgcg tgggcggctg cgtgggcgcc gcaccatccc ttaagcgcgg 60

cagagccagt gccagtgcc gtgccagtga agcagagcag cagcatggct cgggacacag 120  
cagcaggcac aatcagccta gcgaggcggt cccgcccagc cggcccaca gctccaggtc 180  
agagagagac cccagacatg gcggcagcag ggatcagcac ctccaggacg gcgcccgtgg 240  
gttgctgcac cctagcgaca tgttcacgt gaagaagaag aggcaagagc gcgagaggag 300  
cggaatcggg tccccttcca gctcgggccc aggcgccgga cctttgtcgc cggccaacct 360  
tgggcgctccg gcccttgccc cttggc 386

<210> 9482

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-H9

<400> 9482

cagcccacca caccgcgcc tccgtaccat ccgtcgccgc cggcgcaccg cgatggctgc 60  
ctccgccacg gccgcgaggc ctttcgccgg gactgccgtc ctgctcccgc tctcggcgcg 120  
gacgcggcct gccagggctg ccttgctctc cctgattcct cctgctccgg cctgcgcct 180  
tgctctcagg cgcggcgcggt ggctcccact cccggagcgc agccgggtcgg tgcgggtgcct 240  
ggcggctatg agcccggaga tgcggggcgc gctggacaag gtcgtaggct ccagcaaggt 300  
ggtgctgttc atgaagggca ccaaggactt cccgcagtgc ggcttctccc acaccgtcgt 360  
gcagatcctg cgctccctcg acgtgccctt cgagacgctc gacgtgctcg ccaacgaggc 420  
gctccggca 429

<210> 9483

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-G4

<400> 9483

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ctttcaccat tgtatgttca taaacttctt atacaacata cactaaacta taactaccac 120  
actccctaac cctatctact tcaatctaact tcaccttaaa cccttcacaa caactactcc 180

tcaatcttca gatcttatcc gatattccaa cacacactga cattaatcaa cattacaatt 240  
ctcatcacat ccctactacc tatcaccaac tatcacacta tctataataa tataacaataa 300  
aaataacact ttcca 315

<210> 9484

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-E9

<400> 9484

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ggaccaaaca taaaggacaa caactacaac aacttgtgct aagaaacctt gctgcctact 120  
ctcagcaaca gcagtttctt ccattcaacc aactggctgc attgaactct gctgcttatt 180  
tgcaacaaca actaccattc agtcagctag ctgctgccta cccccagcaa tttcttccat 240  
tcaaccaact ggcagcattg aactctgctg cttattttaca acagcaacag ctaccaccat 300  
tcagccagct agctgatgtg agccctgttg ccttcttgac acaacaacag ttgttgccgt 360  
tctacctgca cgctgcgcct aacgctggca ccctcttaca actgcaacaa tt 412

<210> 9485

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-F1

<400> 9485

ccggcaaaaa aaaaacaaac acaagaaaaa taaattaaaa aaaaacaatt tttattttta 60  
aaaaaaaaaa aaaaaaaaaa aggacatggc ccaattcata aaatcacatt aactacaaaa 120  
acaaacctcc gctgtaaaaa catcctttat ataaccactt gtccttttaa aacccccatt 180  
ttaaaatata aaaaacgcct tcaaaaaaaa aaaatccaaa ctaacaatac acgtgcatcc 240  
tacctctaaa actctcccct atttctcacc caaacttaaa aaacttaacc tttttttaaa 300  
aacgtcccaa tttaaaaaac ccttacttta cttaaaaaaa ccgtcatttt aaaaaaccct 360  
tctttttcaa cttttattac cctaaaaa 388

<210> 9486  
<211> 421  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-F10

<400> 9486

agaccaacaa gcaacataga aagtgggaatc cagtagcaac aacagagcaa caatggcgac 60  
caagataattt tccctcctta tgctccttgc tctttctgca tgtgttgcta acgcgacaat 120  
tttccctcaa tgctcacaag ctcttatagc ttcccttctt ccccatacc ttccatcaat 180  
gatagcttca gtatgtgaaa acccagctct tcagccctat aggctccaac aagcaatcgc 240  
agcaagcaac atacctttat cacccttggt gtttcaacaa tcgccagccc tatctttggt 300  
gcagtcattg gtacaaacca tcagggcaca gcagctgcag caactcgtgc tacctgtgat 360  
caaccaagta gctctggcaa acctttctcc ctactctcag caacaacaat ttcttccatt 420  
c 421

<210> 9487  
<211> 392  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-F11

<400> 9487

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gatccatcac gcagccgagc acttcaccgg cgactggtcg catgataata ggccatattc 120  
attctcgggtt tatacaccaa gcagaacatg tgctcgtctat gctccagtgg agtgatagcg 180  
gggtactcgt tgctgcgcgg catgtgtggg gctgtcgatg tgaggaaaaa ccttcttcca 240  
aaaccggcag atgcatgcat gcatgctaca ataaggttct gatactttaa tcgatgctgg 300  
aaagcccatg catctcgtcg cgttgtcctc tctatatatt taagaccttc aagggtgtcaa 360  
ttaaacatag agttttcgtt ttctcgtttc ct 392

<210> 9488  
<211> 406

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-044-Q1-K1-F12  
  
 <400> 9488  
  
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 gaggcttatt attggccatt accccaggtt attggaaacc ttttggcacc agaacaagct 120  
 ttttttggtt aattaaacca ttcaaatttg gttaaacctt gaagacccat ttgcacgtga 180  
 taggtacaac caatgattta aagtcgccta gtcggctggt cgaaccctgg gactgaccag 240  
 gcgactagtc gcgattagtc gacgactagg gcgactagtc gacccctagt cggtcctagt 300  
 cggtccttgg tcgtcctaga ctagtagcta tacttatata ggtatatata taaatatacc 360  
 tgtatacatt atataaatta gaacaaacaa ctaggataaa caaagt 406

<210> 9489  
 <211> 343  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-044-Q1-K1-F2  
  
 <400> 9489  
  
 ggcctagcgc cgcacccgcc gncgcatcag ccatcagcca tggcgatggc cgctcgccctc 60  
 gtctcgcgct cccgtcagct acattcggtt caagcagctt ttgcgaatgg aggtgccact 120  
 caagttcgct cctttgccaa ggatgcagct ccagctgacc gtctctctgt tgggtggggat 180  
 gatctcctga agggcatatt ctttgaggta aagaagaagt ttgagacagc tctcggcgtc 240  
 cttaaaaagg aaaagatcac tattgatcca gatgaccag cggcagtttc tcaatatgct 300  
 caagtcatga agactgtaag ggaaaaggcg gatcttcttt ctg 343

<210> 9490  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-044-Q1-K1-F3

<400> 9490

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gggagaagat gatctacgac gtgaactccc cctcttccg ttccttcctc agccagaagg 120  
gcggcgccga caagaggaaa atggaggagc ataaaccaa ggagcagagg cccaaggcta 180  
acgagaacaa gcctgtgatg aacgaatgaa tatctccaga agctttgttc aatgtgcaac 240  
caagtccgat gtccgtctgc tctggtcagc ttaaaaccaa cgcttccaat aatcctattg 300  
gtgtcttagt ttcccccttat agtggtattt gtcgggcttg aacatggcaa cggaaatgaa 360  
acttgaacta tgggtactgtc atcaatttga gacccccatg attgacaact tt 412

<210> 9491

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-044-Q1-K1-F5

<400> 9491

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agcacctacg gcgaggtcct cgagtccaag atcatcctcg atcgggagac gcagaggtcc 120  
cgcggttcgt gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc 180  
atgaacggca aggagctgga cgcccgcaac atcacgtca acgaggcca gtcccgcggc 240  
ggccgtggag gcggcggcgg tgggtacggg ggtggcgtg gaggcggcgg ctacggcggt 300  
ggcgggccc gtgatggcgg cggcggctac ggcggtgggc gcggctacgg tggcggcggc 360  
ggctacgggt gtggtggcgg cggtacggc ggtggcaacc gtggcggcgg ctacggcaac 420  
tncgacggga actggaggaa ctg 443

<210> 9492

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-F6

<400> 9492

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gccaccagtc atgccattgg gtaccatgaa cccatgcatg cagtactgca tgatgcaaca 120  
 ggggcttgcc agcttgatgg cgtgtccgtc cctgatgctg cagcaactgt tggccttacc 180  
 gcttcagacg atgccagtga tgatgccaca gatgatgacg cctaacaatga tgtcaccatt 240  
 gatgatgcag catgtcacca atgggtcttg cagcatgat gtcgcaaata atgatgccac 300  
 aatgtcactg cgacgccgtc tcgcagatta tgctgcaaca gcagttacca ttcattgttca 360  
 acccaatggc catgacgatt ccacccatgt tcttacagca accctttgtt ggtgctgcat 420  
 tctagataga aatattttgtg ttg 443

<210> 9493  
 <211> 411  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-044-Q1-K1-F8  
 <400> 9493

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 cgccgagctt cctgtttccc tccccgccc cgcgacgccg cgacgccatg gagccgccg 120  
 acgccgagca ggccgtcgcc gctgtagcag caggaggaga gggcggcacc gcaagcccg 180  
 gcaccggcct cgaagggccg gtgcttaggc gngggctgga cggcggtggg gaaggggagg 240  
 acggtgagct gggggcgng caggaggcga acgcacggct accagagcgg cctggcgagg 300  
 cggactgtgg ctactacctc cgacggccg cctgngcttc cgggaagcgt gccggtacaa 360  
 ccattcccgc gatcgtggcg gactgaggt gcgcgcgggc ggacgatttt c 411

<210> 9494  
 <211> 278  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-044-Q1-K1-G1  
 <400> 9494

cccacgcgtn cgcggacgcg tggggcatgg cggaagcaga attattatat tttgggcaa 60  
 tcattgccat taacattgtc ttcaatgtac actggtattg gcggcgagat gacggatccc 120

aatcggcgctc aatctatctg agcttaaacc cttcacgaca agaggcacac gatcgccagc 180  
gctgcgccga tagtccaaga tgcagtgtct cttgctgcgt tgntcttctg atctgcangc 240  
ggttgggcgt ccgcgttcgg cgaaggagct ggggtagt 278

<210> 9495

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-044-Q1-K1-G10

<400> 9495

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ggccaacatc aacccccaccg gccaaagcgt catcgtctcc acgggtggccg ggatggccta 120  
cttcacgccc gccgacaaga agatcctgtc gctggcgagg cgccactcgt tcgaggaagc 180  
tccggagcac ctcaagaaca ctttcttcca gggcacccga cgccccacc cggctttctt 240  
caagccatga tgagatcaga tatatatatg acacatccgg cgacctcatc agtcatagaa 300  
cccaagcagc cagtcagtca gtcagcacia gcacaagcac caaagatgat gccattcaag 360  
tctgcatggg tgcatattata aaaaataaac tgctangctg atgacgcgct ctaatataag 420  
ctag 424

<210> 9496

<211> 348

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-044-Q1-K1-G11

<400> 9496

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ggctgggtgg aggtgctttg gttaccatt attcggattg gaaggccgtt tgtaaggggc 120  
ctggctgaat aagtccttag tccctggctt aactgctgt gctaccacat gacatgatgt 180  
actcgtgtgt gtgctaggat ggtgtgtaat tacatgacca tgatcagtaa tctgaataaa 240  
aaatattgga gatgtgcttg cttcctaaaa aaaaacatnc gtcgacctaa tcaatcatag 300

agcccagcca gccagtcagt caagtaagca caagcacaag caccaaaa

348

<210> 9497

<211> 299

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-044-Q1-K1-G3

<400> 9497

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ttaaccttcc tgaaggcctt ggaaaaccaa ttttaacaac aacaatggcc ttggtggttt 120

gaccgtactt ttcattggaa ggtccacagg aactaatgct tgatctttgg atgttgnttg 180

aagatgaaaa cacatcaaga gaaaattacg aggacaacaa tggttacatg cctncaagtt 240

atgaagaagg aacatcctct ggaggaggat tgagaatgaa actcaaacag tttcacaaa 299

<210> 9498

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-D11

<400> 9498

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tcttcttcga catgaccgtc ggcggcgccc cggcgggccg gatcgtgatg gagctgtacg 120

ccaacgaggt gcccaagacc gcggagaact tccgcgcgct gtgcacgggc gagaagggcg 180

tgggcaagtc cgggaagccg ctccactaca agggctccac cttccaccgc gtcacccccg 240

agttcatgtg ccagggcggc gacttcaccc gcggcaacgg caccggcggc gagtccatct 300

acggcgagaa gttccccgac gagaagtctg tgcgcaagca caccgtcccc ggtgtgctct 360

ccatggccaa cgccgggccc aac 383

<210> 9499

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-044-Q1-K1-D12

<400> 9499

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cctcgtgttc gtgctcatct gcgggcgtct tgtcttcgga tgggtcatta agattgccgt 120  
cttcggtgtc gaacgcaact tcttgcttaa gaagcccggt ctctactttg ggtatggagt 180  
gcccacgcc gtgcaaaacg cgctcttgct cggcctgggt ctgcctctt ggcacttctt 240  
gtttgacgag aatgtccagc aagagacgaa ctctccagta ctgccctatg tgacgaaggt 300  
actattctgc tttcttggtg ccacgctcat ccgccttggt aagacattgc tgctgaaggt 360  
actggcctnc tccttccatg tctcgacgta ctttgatcgg attcaagagg cattgttcaa 420  
tc 422

<210> 9500  
<211> 384  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-044-Q1-K1-D2

<400> 9500

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cacagcgtca aatgctgcat tcagagagca tgagggtccc aaatccagaa cgaatttcca 120  
aggtaaagaa atcaatgtgc cggataaagc atgtcttgac tgagagggct atagcggagc 180  
ccgatccaag gagatcttcg gaaatgaagc ggatgataaa tgccctgtga ttcactcaca 240  
ggcattctcc cttgggactt ttgatggtag ttattagaaa gatctgctgc cttctgttgt 300  
atctctatcc cataagaact gtgagaccaa atcttttcga tgcccatggt atggtagcaa 360  
aaattagact ntaactgac cgat 384

<210> 9501  
<211> 362  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-D5

<400> 9501

cagaaacaca ccaagcgaag cgcactagca acgacctaac aacaatggct accaagatat 60  
tagccctcct tgcgcttctt gccctttttg tgagcgcaac aaatgcgttc attattccac 120  
aatgctcact tgctcctagt gccattattc cacagttcct cccaccagtt acttcaatgg 180  
gcttcgaaca cctagctgtg caagccaaca tgcaacaaca agcgcttgcg gcgagcgtct 240  
tacaacaacc aattgcccac ttgcaacaac aatccttgcc acatctaaca atacaagcca 300  
tcacaacgca acagcaacaa cagttcctac cagcactgag ccacctagcc atggtgaacc 360  
ct 362

<210> 9502

<211> 167

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-D6

<400> 9502

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tatgaggggtg aaacctgttt ctaatttcta tattgttgct gttcatt 167

<210> 9503

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-D7

<400> 9503

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tctttttaat tcaaaagaaa tctctcttct aggctggtgc ttttcgacta taatttggag 120  
attgttccat gtccgtgcaa tcatctgaac atgttactac ttattgtacc ttgtcgtgca 180  
aagttttgct aagatctcta ttgtttcatg tcttctgata aaaaaaaaaa aaaaaaaaaa 240  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggg gcgccctttt 360

taaggggtccc aagtttactt ccccgtcctt gcaacttcaa acctttttta tgggggcccc 420  
 aaaattaaat tcccgggc 438

<210> 9504  
 <211> 424  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-D8

<400> 9504

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 gaaattcagc tgcagcttga gaagatgaag aaatatgctt ctgttatccg tgtcattgct 120  
 catacccaga ttaggaagat gaagggtttg aagcagaaga aggctcacct gatggagatt 180  
 caggtcaatg gtggtaccat tgctgacaag gtggactatg gctacaaatt ctttgagaaa 240  
 gaggtccctg ttgatgctgt cttccagaag gatgagatga ttgacatcat tgggtgtgacc 300  
 aaggggaaag gttacgaagg tgtggtcact cgttgggggtg tcacccggct tccccgcaag 360  
 acccacaggg gtctccgcaa agttgcttgt atcgggtgcat ggcacccggc tagggtctcc 420  
 tata 424

<210> 9505  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-D9

<400> 9505

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 ggtaccatga acccatgcat gcagtactgc atgatgcaac aggggcttgc cagcttgatg 180  
 gcgtgtccgt ccctgatgct gcagcaactg ttggccttac cgcttcagac gatgccagtg 240  
 atgatgccac agatgatgac gcctaacatg atgtcaccat tgatgatgcc gagcatgatg 300  
 tcaccaatgg tcttgccgag catgatgtcg caaatgatga tgccacaatg tcaactgcgac 360  
 gccgtctcgc agattatgct gcaacagcag ttaccattca tgttcaaccc aatggccatg 420

a

421

<210> 9506  
 <211> 342  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-044-Q1-K1-E1

<400> 9506

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 ttctacatca agtattcaaa gcttatggat ttgtggagaa gattgtcaca tttcaaaagt 180  
 cagctgggtt tcaagctctt attcagtttc actcgcgcca aagagctgtg gaagcatttg 240  
 gttcttgcac ggaaggaaca tatatgatgg ttgctgccag ctatgatattc aatattcaaa 300  
 tctcagtga ctcgaagtnc attacaacaa cgaccgatct ag 342

<210> 9507  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-E10

<400> 9507

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 aattttccct caatgctcac aagctcctat agcttccctt tttcccccat accttccatc 120  
 aattatagct tcagtatgtg aaaaccacgc tcttcaacca tataggcttc aacaagcaat 180  
 cgcagcaagc aacatacctt tatcgccctt gttgtgtcaa caatcgccag ccctatcttt 240  
 ggtgcagtca ttggtacaaa ccatcagggc acaacagctg cagcaactcg tgctacctgt 300  
 gatcaaccaa gtagctctgg caaaccttcc tccctactct ccgcaacaac aatttcttcc 360  
 attcaaccaa ctgtctacac tgaaccctgc tgcttatttg cagcaacaac tattaccatt 420

t

421

<210> 9508  
 <211> 423

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-E11

<400> 9508

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 agatatctgg cgatagctta aagaatgtat acaaatcttt tgtgagcgaa taccctattg 120  
 tttcgattga agatcctttt gaccaggatg actgggttca ctatgctaag atgactgaag 180  
 aaattggaga gcaagtgcag attgttgggtg atgaccttct cgtcaccaac ccactaggg 240  
 ttgctaaggc tatcaaggag aaatcatgca atgcccttct gctcaagggtt aaccaaattcg 300  
 gatctgtgac tgagagtatt gaggtgtga agatgtcaaa gcgtgcgggc tggggtgtga 360  
 tgactagtca taggagtggg gagactgagg acactttcat tgctgatctg gcagttgggt 420  
 tgt 423

<210> 9509  
 <211> 95  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-E12

<400> 9509

ggcaggcggt ccatcactcg tccggtaggg tttttcagag atactccgaa agcatggggc 60  
 ggacatactt acccattgca atgcaaacag attta 95

<210> 9510  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-E4

<400> 9510

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 agaagatgca ggcattctagg gcaaggcttt tcaaggagta caaggaggta cagcgagaga 180  
 agtcagctga cctgatatc caattaatat gtgatgattc taacatattc aagtggactg 240



ctcttatcaa gggcccttct gaaacacctt atgaaggtgg tgtgtttcaa cttgcattcg 300  
 caattccaga acaataatcc ttgtctgcct cctcaagttc gatttttgac caaacttttc 360  
 caccaaattg tccttttcag gacaggtgag atttgtctgg atatattgaa gaatgcat 418

<210> 9511  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-044-Q1-K1-E6  
 <400> 9511

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 ttgctcctgt tccgcgacca cagatgctcc aggcctggga gcgggagcga gagagatggc 180  
 ggcacgggac gacccaagt gcgaggagat ggtgccctgc accttcaggc gctgcatcca 240  
 gtactgcgtc agcatagggc tgcagcctgc agccaaggg gttctgcaac tccaagccca 300  
 acatgcaggt ctactgctgc tgcgtcatcc cctagcatca tagctcctcg tcaacacacc 360  
 taaatctgca gccctgctag agaagatacg atctctatgc agattagctg cagcgatata 420  
 tatagatgga tgaatc 436

<210> 9512  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-044-Q1-K1-D10  
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 tacgccaacg aggtgcccga gaccgcggag aacttccgcy cgctgtgcac gggcgagaag 180  
 ggcgtgggca agtccgggaa gccgctccac tacaagggct ccaccttcca ccgcgtcatc 240  
 cccgagttca tgtgccaggg cggcgacttc acccgcgga acggcaccgg cggcgagtc 300

atctacggcg agaagttccc cgacgagaag ttcgtgcgca agcacaccgn ccccggtgtg 360  
ctctccatgg ccaacgccg gccaacacc aacggctccc agttcttcat ctgcaccgtc 420  
gcg 423

<210> 9513  
<211> 449  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-044-Q1-K1-B7  
<400> 9513

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tgtttatact attatctgaa atgtacagat ctgagcccac aggaatctac actcttatgt 120  
gatgttggtg aagtagggca gcttccagac tttgtgccag aagatgaaaa gacgagatat 180  
gcgttttacc tggtgacctg tcaagggttg aggtttgaat gctccagtac ctccgaaata 240  
caggttgatt catgggtaag agcactgtca agtgactgca aattgcagga tggcgctggg 300  
gatgataaga tgatgaatac gaggagtagc caagtagaag ctgggtcatc atggtagacg 360  
atgtatggag tgctgtacag tacaatagtc aatgaaatgt acatacatta catgcatgta 420  
aaggagagcaa catatgtacg tagtagacg 449

<210> 9514  
<211> 444  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-044-Q1-K1-B8  
<400> 9514

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ctaccaagat attagccctc cttgcgcttc ttgccctttt agtgagcgca acaaatgcgt 120  
tcattattcc acagtgtca cttgtccta gtgccagtat tccacagttc ctcccaccag 180  
ttacttcaat gggcttcgaa catccagccg tgcaagccta caggctacaa ctagcgcttg 240  
cggcgagcgc cttacaacaa ccaattgccc aattgcaaca acaatccttg gcacatctaa 300  
ccctacaaac cattgcaacg caacaacaac aacaacagtt tctgccatca ctgagccacc 360

taaccgtggt gaaccctgtc acctacttgc aacagcagct gcttgcaccc aaccacttg 420  
ctctggcgaa cgtaactgca tacc 444

<210> 9515  
<211> 419  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-B9

<400> 9515

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tgttgcaccg agtgagaagc acccaggaag cttattagaa ggthtttttgc atactcaaht 180  
tagtaccatg gcagtgaagg ataatttgth agtagctggt ggtttttcaag gagagctaat 240  
atgcaaacac ctagatcgag aaggaataag cttttgctgc aggacaacat atgatgataa 300  
tgcaattacc aatgcattgg agatattcaa tacatctagt ggagctcttc acttcattgc 360  
atctaacaat gactgtgggg taagagagta tgatatggaa agatatcagt tgtttaagc 419

<210> 9516  
<211> 453  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-044-Q1-K1-C1

<400> 9516

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tcaagaaagt tgggtacaac cctgataaga ttgcctttgt ccccatctct ggttttgagg 120  
gcgacaacat gattgagagg tccaccaacc ttgactggta caaaggcccg accctgcttg 180  
aggctcttga ccagatcacc gagcccaaga gaccttcgga caagccccctg cgtctacccc 240  
tgcaggatgt gtacaagatt ggtggthattg gaactgtacc ggttggthctg gtggagactg 300  
gtgtcatcaa gcctggthtg gthgtcacct tccgtccaac tggcctgact actgangtga 360  
agtctgttga gatgcaccac gaggtctctc aggaggccct tcttggthgac aatgthggct 420  
tcaacgtgaa aaacgthgct gtgaaggatc tca 453

<210> 9517  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-C10

<400> 9517

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cgctataggc tccaacaagc aatcgcagca agcaacatac ctttatcacc cttgatgttt 120  
caacaatcgc cagccctatc tttggtgcag tcattggtac aaaccatcag ggcacagcag 180  
ctgcagcaac tcgtgctacc tgtgatcaac caagtagctc tggcaaacct ttctccctac 240  
tctcagcaac aacaatttct tccattcaac caactgtcta cactgaaccc tgctgcttat 300  
ttgcagcaac aactattacc attcagccag ctagctactg cctactctca gcaacaacaa 360  
cttcttccat ttaaccaatt ggccgcactg aaccccgcgtg cttatttgca gcagcaaata 420  
ctactaccat 430

<210> 9518  
<211> 450  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-C11

<400> 9518

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agtttgcaga gccggtacgc caaagcggtc aagaaaggcg cgccaccgag caaggatcag 180  
gatcgccgtc tcttcgacct ctgcaagaac gtctggcctt ctgttagcaa tgccaaggcg 240  
gttaccaagg ctgttaccac ggcgtcggct aacgggtggtg ctgggaggga gcctgacgag 300  
atgtgtgagc tgtaccata ccttgcggag gaggtgaggg cgcttcagag ggcacacccg 360  
ggcttgttca agcgggagtt tgggatgatc gaagacagca aggcccgtgc actggacgag 420  
aggatcaaga agcagaggcg tgcactgatg 450

<210> 9519  
 <211> 427  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-044-Q1-K1-C12

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 agcgcaactt ggagaagaac aagggggcca aggggagcca gctcgagacc aacaagaagg 180  
 ccatgagcat ccagtgcaaa gtgtgcatgc aaacattcat gtgtaccacg actgaagtga 240  
 agtgccggga gcacgccgag gccaagcatc ccaagacaga cgtgtaccag tgcttcccc 300  
 atctgaagaa gtgaaaggcc tgaacttagc aaccagtgtg ggtttggtca ctacgatcgg 360  
 gccagggggc gttccttgtg ttgagggtgt tcattccgtg ttatcttccc gtcagtcatg 420  
 cgtntctg 427

<210> 9520  
 <211> 196  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-044-Q1-K1-C3

<400> 9520  
  
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 ggctacaaca tgatagagag gtcaaccaac ctagactggc acagatgccc gaccctgcta 180  
 caggctatta accaga 196

<210> 9521  
 <211> 304  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-044-Q1-K1-C5  
  
 <400> 9521

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 accattttcc cgcaatgctc acaagctcct atagcttccc ttcttccacc gtacctctca 180  
 ccagcgggtgt cttcggtatg tgaaaacca attcttcaac cctataggat ccaacaggca 240  
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 cagc 304

<210> 9522  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-044-Q1-K1-C7

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 tatgaatgta tatgatgaat ctgtaagagc tgttctctggc agtgaaaaaa atggccatgt 180  
 atgaaatcta tatagcacgt gctgccgaac tctatggtgt tccaaggaca agacaaatat 240  
 acgagcaagc aattgaatct ggcctnccag acaaagatgt tctgataatg tgcatagaat 300  
 tcgctgaact agagagaagc cttggtgaaa ttgatcgctc gcgtgccatc tatgtgcatg 360  
 catccaacta tgctgatcca aataatcctg acttttggaa gaagtggaat gactttgaga 420  
 ttcagcacgg taa 433

<210> 9523  
 <211> 437  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-C8

<400> 9523  
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 tgcgagcatg aggagattgc cactgatact tgtgtgtaca aaagggttat ccgcaagcct 180

ggtggtgagc ccaaggatgt cctgaaggat gcagcaactg atcctagcct gcctcgcacc 240  
 agaagcgtca gatgttataa ctgcaaccat ccagaagctg ccttttttca ggccccgact 300  
 aaggggagaac aagccatgac gctgtacttc atctgctgca acccaagctg cgggcacagg 360  
 tggagggact gagaaggatc tggcttggtc ttcgctgcaa acctgccgta ttgttagcct 420  
 atcacataaa tattgga 437

<210> 9524  
 <211> 157  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-044-Q1-K1-C9

<400> 9524  
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 cgattggaga ttcttagaaa ttcttgacat cattggatta tgcttgaaat nttaattaa 120  
 ataacgtcac tgaaatgaca tttgcgttaa gaattgc 157

<210> 9525  
 <211> 443  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-044-Q1-K1-B6

<400> 9525  
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 agttcatgac aaggcgtaaa gggcactcaa aggtcttgga atcaatagat gctgctgtag 180  
 aacttgggta tagccctgtt aaggtcaact gtgtcatcat gcgtggtata aatgatgatg 240  
 agatctgcaa ttttggtgaa ttgacgagac acaagcccat caacgttaga tttattgagt 300  
 ttatgccatt tgatggtaat gtttggaatg tgaagaatct agttccttat gcagagatgt 360  
 tggacaaagt gcggcaaagt tataaaggag tagagagact ttaaaatcac cctacagaca 420  
 ctgcaaagaa tttcaagatt gat 443

<210> 9526  
 <211> 407  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-A11

<400> 9526

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tctggtcttc ggtggacatg gaagagttgg ccacgacgtg gatcacttca cgtcgcctga 180
aggggtgcca ggggtgcccc aaacgaactt caacaaccgg ccgaactcgt tcaaagtcct 240
ttctccgccc cgcacctgtg tggcttatta ccgtgtagac gaagcaaggg ctggacgacg 300
tcttcacgcg aaagcagaga caggaaagac gtctccagca gagagcatcg acgtcaaagc 360
ttccagagct agtagcaaag aagacaagga agcaacggct ggtggca 407
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<210> 9527  
 <211> 450  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-A3

<400> 9527

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agcatatgca cgtgcatggt gctcacgaac ttcatcctaa ctgtgggtgga ggcgggcacg 180
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ctcaacatcc taaattcgct ccagtaagac tccgcacgtg ccgcatatg tactggacag 300
tatgcattga aagagttgca gtcccaagct gccaaagaaag actctatgcc caaggacgac 360
aaacattaga tgatcttaca ccctgtttct tgtaatgcgg tagcagtttg aggtccaaga 420
ttttgaattg gtcctttaa aaaatggatg 450
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<210> 9528  
 <211> 249  
 <212> DNA



<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-A4

<400> 9528

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tgctgcgcag cgtatgatgc tgatttggga cggctaatac agaaaggatc tctgctgact 180

cttaagcagt tgggttctgt cagtactaag catcggcaat aaaatacccc tagatatgac 240

caataataa 249

<210> 9529

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-A7

<400> 9529

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caaggaagta tattcagcca cagttatctg atgaagctgc agaagagtta actcgtggct 120

atgtcgagat gagaaaaaga gggaatagcc ctgggagcag aaagaaggtc ataacagcaa 180

ccgctagaca aatagagagt ttgatccgtc tcagcgaagc attagcccga atgcgggttct 240

ctgaagtggc cgaagtgcgg gatgttctgg aggcattcag gcttcttgaa gtcgccatgc 300

agcagtctgc gacggatcat gcaactggta cgattgatat ggatctgac atgacgggga 360

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<210> 9530

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-A8

<400> 9530

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ctttctgcaa gtgttgctac cgcaaccatt ttcccacaat gctcacaagc tcctatagct 180  
 tcccttcttc ccccatacct ctcaccagcg gtgtcttcag tgtgtgaaaa cccaattgtt 240  
 caaccctaca ggatccaaca ggcaatcgca acaggcatct taccattatc acccttggtc 300  
 ctccaacaac cgtcagccct attacaagag ttacctttgg tccatttggg ggacaaaaac 360  
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<210> 9531

<211> 336

<212> DNA

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 cctaaagaac gctccaggcc tcagggaag gctactgaca ggccttagcg ccccggttcc 180  
 tcaagaacct tcttcaactcc agagggtaat gaccgaggaa catggcagcg gcgcatcaag 240  
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<210> 9532

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-B10

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 gagaaagttg tatcagagct agttggaagt gaaaggatgg ggagcaacaa cagtgtgaa 180  
 ttgctggaga gtatggaaaa ggctgaaaat gtttgttttg gtgggaatgg agttagtcaa 240  
 ggtggccttc cagaagagtt agaggatga acaaggatac atcgtggaaa tcattactga 300

ggatcagtgg cgtcaacgac acataattga aggaagaatt gtggagatag ataagttcta 360  
 ccgcttgctg ggtggaatgg taagtagctc aactcacaag tttccttctg gacacagatt 420  
 tgcaattg 428

<210> 9533  
 <211> 299  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-044-Q1-K1-B2

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 tgcagcgcag cgccggacct nctgcgtgcc ggggtgggcc attccgcaca acccgctccc 180  
 gagctgccgc tggtagctga ccagccggac ctgcggcatc gggccgcgcc ttccgtggcc 240  
 ggagctgaag aagagatgct gccgggagct ggcggacatc ccggcgtact gccggtgca 299

<210> 9534  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-044-Q1-K1-B4

<400> 9534

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 cttctggaca cacacagttg ttgccgttct acctgcacgc tgcgcctaac gctggcaccc 180  
 tcttacaact gcaacaattg ctgccattca accaacttgc ttgacaaaac ccaacaacgt 240  
 tctaccaaca acccatcatt ggcggtgccc tcttttagat tgcttatgag ttatagttca 300  
 ataatgaagt tttttggatg atgtttgtgg cttcccagaa ataagaaatg tactttctta 360  
 cttcttctctg gagagaaaaa gcagaagaca atacaaagat gtccaagatg gcggaggaga 420  
 aggcggcngc agtgggcgga ctc 443

<210> 9535  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-B5

<400> 9535

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 gagttcatga caaggcgtaa agggcactca aaggtcttgg aatcaataga tgctgctgta 180  
 gaacttgggt atagccctgt taaggccaac tgtgtcatca tgcgtggtat aaatgatgat 240  
 gagatctgca attttgttga attgacgaga cacaagccca tcaacgtagg atttattgag 300  
 tttatgccat ttgatggtaa tgtttgaat gtgaagaagc tagttcctta tgcagagatg 360  
 ttggacaaaag tgcggcaaag ttataaagga gtagagagac ttcaagatca cccacagac 420  
 ac 422

<210> 9536  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-A10

<400> 9536

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 tttcttacgc gtcgtgacca cggcacacgt gtgactgacg gctgcagggc ggagatgtac 180  
 ttcaagcagg cgggtggcgc cgagccggcg gacggcgaag cgatgcggag gtacggcatg 240  
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 gacgcggagc ccgagagcag ccaccaccgg agcagctacg cgtgggttct atggatgacc 360  
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 tgaacc 426

<210> 9537

<211> 405  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-G7  
  
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 tgcttactgg ctactatagc ggatctactt ccggcataac tctgaccatc gacgtcacca 180  
 agatgtgcat tcgaattcca tcaacgctac aggacactag atgtagcgac agcactgatc 240  
 ataatgtata ggagcgtaag acgtcgaaca catacatctc atactacctc agatgcgtat 300  
 agagcttata cagacacggt gcatgtcgat gctcagatac gtctactgca gctattaaac 360  
 cttgctgcct tagcatatgg acaactggaa gctttggcgc aatta 405

<210> 9538  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-G9  
  
 <400> 9538  
  
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 acaatgctca cttgctccta gtgccattat tccacagttc ctcccaccag ttacttcaat 120  
 gggcttcgaa cacctagctg tgcaagccaa catgcaacaa caagcgcttg cggcgagcgt 180  
 cttacaacaa ccaattgccc aattgcaaca acaatccttg ccacatctaa caatacaagc 240  
 catcacaacg catcagcaac aacagttcct accagcactg agccacctag ccatggtgaa 300  
 ccctgccgcc tacttgcaag agcagctgct tgcaccaac ccacttgctc tggcgaacgt 360  
 agttgcaaac catgctcatc atcagctaca acagtttctg ccaacgctca gtcaacta 418

<210> 9539  
 <211> 405  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-H10

<400> 9539

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agtactcgca ggagccgggc aaccctacca agtcggctaa ggccatgggc agggatctga 120

gggtccactt caagaacaca agggagacag cctttgcgct tcgcaagttg tctttgacca 180

aggctaagcg ataccttgag gatgttattg ctcacaagca ggcaattccc ttacggagat 240

actgtggggg tgttggtcgc accgcgcaag ctaagtcgcg ccactccaat gggcagggcc 300

gctggcccg taaatcagcc aggttcatcc tggatttgct gaagaatgct gagagtaacg 360

ctgatgtgaa aggctcggat gtggacaacc tctatgtttc acaca 405

<210> 9540

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-H11

<400> 9540

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acaaaaaaaa aataaaaaaa atactcacia tctcctggca cccattccaa gtctcctaag 120

gtcatgttca cgtatcttct actccacttc actaacatca tgcacactac cttctttctt 180

tgcccgttct ctttacacat tcctaactga tacctccttg atgttaccga tctcaatcac 240

ctttttccat ttccgctttt ctccaactgt ctttttccct ccgtgcccc taactatcgc 300

cactcccatg agctggggcg cttgcccgcc aaatgagcca cgctcctcct ggatctttta 360

aagactgctg ccagtttcgc tgct 384

<210> 9541

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-H3

<400> 9541

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agctaccaac gcaagctaca ctatagtagc atgtaactac agctatagct accctcgcaa 180  
 ctgctactgc aactccgacg ttaaacagag gaactaatgc gaaaaccctg cgcggtcaaa 240  
 ttatactgaa cgctaacgag atgcccaccc tattacatag ggttt 285

<210> 9542  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-043-Q1-K1-H5  
 <400> 9542

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 ccttggtggg aagggatggc gtcggaggtg gaggacgacg cggcgggtgcc ggcgcgcgcc 120  
 ctggtcgcca atggtgcagc cgacgtccgc cggaggaggg atcaggctaa ggcgattttg 180  
 tccaagcagg ccgtcaagat cgccaccaag gccgagcagc acgagcgctt catctttaag 240  
 gtcatttccc cgacctgcc tccgtttaat ctctttatta ccgcctttct tgtgcagttg 300  
 acgtccacaa atcttgccgc tcccgtgctc cctttctttt gtggagggtca ttgtgtgatg 360  
 taataagtac ctgcacattt attggtcgca ct 392

<210> 9543  
 <211> 337  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-043-Q1-K1-H7  
 <400> 9543

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 cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata 180  
 gcttcagtat gtgaaaaccc agctcttcag ccctataggc tccaacaagc aatcgagca 240  
 agcaacatac ctttatcacc cttgttggtt caacaatcgc cagccctatc tttggtgcag 300  
 tcattgggtac aaaccatcaa ggcacagcag ctgcagc 337

<210> 9544

<211> 329  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-H8  
  
 <400> 9544  
  
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 catgccctgc ccctgcacgg tgctgcactg ctagtactgc gctggcgccg gcctgactac 180  
 catgatggac gcctgcagtc tgtaccata cacgtagtac ctgatgcagc ctgagtgcag 240  
 ccctctgacc gcggcgcact actacaccag ccgtggtcag tcaaccgcca tgttccatac 300  
 gtcctgggca cagttctgtc cacaccata 329

<210> 9545  
 <211> 315  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-H9  
  
 <400> 9545  
  
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 cgaattcatc caaaaccaac ttcttgatcc tcgtacaccc atgggacgca tagtcagtac 180  
 ggctgattat gcttacagaa tatcagatct aggagtggct atgaattgat cactgtgtta 240  
 tgaacattaa catcctatgc actatgtgca acagatcgat gatcatagac tcaatgcgat 300  
 caacatctac aagac 315

<210> 9546  
 <211> 425  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-044-Q1-K1-A1  
  
 <400> 9546  
  
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atttgatcat taccagcttc tgcaatatgc tctagagagc ctggtttgta caaataaagg 240  
gagaacaggc agatttttgt acagcctgat ggcatagcgt tagccattgt atcatataca 300  
aggactggcc cgagcgaata cgctcctgga gtccctttgc acaacgagag caccacagga 360  
tgcattcggt tgtgattgtc tgcaatagaa attgcgatgc ttccaaattt tccagaccgc 420  
cagcg 425

<210> 9547

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-G5

<400> 9547

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gactccaaga aggtgacccc tgagggtgatt gctgagtaca ccgtccgtac cctccagagg 180  
accgtccctg ctgctgtgcc tgctgttgctc ttccctctctg gtggacagag cgaggaggag 240  
gccacccgca acctcaatgc catgaacaag ctcagcacca agaagccgtg gtccctgtct 300  
ttctccttcg gccgtgccct tcaagcgagc acctcaagg cctgggctgg caaggtggaa 360  
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<210> 9548

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-E8

<400> 9548

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gaagaagggc gcggccgggc gcaaggccgg cgggcccagg aagaagtcgg tgacgaggtc 180

cgccaaggcc gggctgcagt tccccgtcgg ccgcatcggg cggatatctga agaagggccg 240  
gtacgcgcag cgcgtcggca cgggcgcccc cgtctacctg gccgccgtcc tcgagtacct 300  
ggccgccgag gtgctggagc tggccggcaa cgctgccaa gacaacaaga 350

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<213> Zea mays  
  
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gccttattag actggtaata cactcaactg aatgatgtcc agttccatca acaaggcttc 180  
accgagactg tcgagtgact gatcacgac atgttttttt tttcacagtt tgcttctgtg 240  
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ctgtgcatgg cgctct 316

<210> 9550  
<211> 423  
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<213> Zea mays  
  
<223> Clone ID: LIB3059-043-Q1-K1-F10  
  
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ctg 423

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 <211> 258  
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 <213> Zea mays  
  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-F2  
  
 <400> 9553  
  
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ttgtaccgca agatcatgtc tgggtgcacg gcgataatat ctttgcttct catgattcca 180  
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<210> 9554  
<211> 293  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-F3

<400> 9554

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tgagcttgct atgtcgacaa caagactgtc tgctaattgca gcgaatacat acgatgctgc 180  
attgtacgca taggccgatg ctgctatatc cataaacgcg gacactttct gtgtactgtt 240  
agcaactgca tgatactaga tcagagtata tatacgtagt gtgacatcgt gct 293

<210> 9555  
<211> 374  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-F4

<400> 9555

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ttcttcaacc ctacaggatc caacaagcaa tagcaactgg catattacct ttatcaccct 240  
tgttcctcca acaatcatca gccctattac aacagggtacc tttgggtgcat tcattggcac 300  
ataacatcag ggcacaacaa ctacaacaac ttgcgctagc aaaccttgct gcctactctc 360  
agcaacagca gttt 374

<210> 9556  
<211> 378  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-F5

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cggcggcgcc ctactacgcc ggggtgtggc agacgagcgc catgtaccag ccgctccggc 300  
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<210> 9557

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-F6

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gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgagca agcaacatac 240  
ctttatcgcc cttgttgttt caacaatcgc cagccctatc tttggtgcaa tcattggtac 300  
aaaccatcat ggcacaacag ctgcagcaac tcgtgctacc tctgatcaac caagtagctc 360  
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<210> 9558

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-F8

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 cacttcagtg acagtgatac ttgtttatta tggaaagttg ttgataatta gcagttgtca 240  
 aattattcat tgggatcacc gcagcttttag gatataactc cttttttttc tggagattat 300  
 gaatagccac tcaccatggc cacttgatat ctttcatact tgaattgtca gacttcataa 360  
 atgtgctcat gaatcatgat gccactaata tattgttctt tacacaaa 408

<210> 9559

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-F9

<400> 9559

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 tcttaccagc gtggccttca gtatgtagaa aacctaatca ttcaacacct acaggatcca 120  
 tcatgcaagc acagcatgca tcttaccttt atgcaccctt gatcctccaa caatgataat 180  
 ccgtatcaca tcagtcacct atgctgcatt aattggcaca gatcatgatg gcacaacatc 240  
 tacaacatct cgagctagct caccttgctg tctacactca gctacagcag ttacctgaga 300  
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<210> 9560

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-G10

<400> 9560

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 gtctagcagc agccaccgcc gcctcatcct cgcagccgcc gtctgtctct ccgtgctcgc 120  
 ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc cgcacaaccc 180  
 gctcccagc tgcgctggt acgtgaccag ccggacctgc ggcacggggc cgcgcctccc 240  
 gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccg cgtactgccg 300

gtgcacggcg ctgagcatcc tcatggactg cgcgatcccg ccggtcccgg acgcgcagct 360  
ggagggccgc ctagaggacc tgaccggctg cccgcgggag gtgcataggg gattcgccgc 420  
cacctc 427

<210> 9561  
<211> 337  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-G12

<400> 9561

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agtcggcag catggacgag gctgcctaag cgtgcgcaat cgtctcttgg acagcctact 120  
gtccacgacc gctgacgcaa tctccaagtt cgacagcata gccgatagga tcagcatctt 180  
ctgctcgtcc gacgaggctg cggaggcctc tatctctacc ttgaagaacc ttacttgtga 240  
ctggtaactc gcagctatgc tgtaccacag cttatcgtaa cactactccg cgcagtctct 300  
cagagcgatc aatgaggacg taagcacgct tgtcttc 337

<210> 9562  
<211> 328  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-G2

<400> 9562

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gtgaagcttg cggcgttttc ggcagcttct gccgtcaggc gcgcaccttc gtcgccatca 120  
ccttcggcac cgtcctctgt ttcattcctc tgtccctcat ctctctgtac cgccttttca 180  
gcgcctacga ggcgcccccg tcgtcggcgc tcggcagcaa gggcgctcag atcgccgtct 240  
acccgcgctg aagccgctgg aggaaggcct cgttgcaa atcttggtatg cgtagtcgat 300  
catgtaataa tggcttatcg catatata 328

<210> 9563  
<211> 415  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-D11

<400> 9563

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tagggctcca ctgggtgccct gaactttgct ccggcgtaga ccgcggcatc accgagctcc 180

tctctgatcc tgagcagctg gttgtatttg gccaggcgct cagaccggca aggagctccc 240

gtcttgattt ggcccgtaga caggccaact gagaggtcag caatgaaggt gtcctctgtc 300

tcgccactcc tgtggcttgc catcactccc catccggcgc gcttggacat cctgacagct 360

tcgatactct cggtcacaga cccgatttgg ttcacettca agaggagagc attgc 415

<210> 9564

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-D12

<400> 9564

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cttgaagagg ctgcccctgg gcttatttta cggaagagaa agtctgctga cgagtcagtt 120

gccagcgagg caaattcatc ttcggttgaa agtgaagcat cagttgctga tgctgtggcc 180

cttctgctta agcataaacg tgggtctacaa acctcagaag aaatggagaa tgagactgaa 240

ccatattcta gcaagaccga agggaagaag tcgaaacaaa aacgtgtatt gggcccagca 300

agaccagatt tccttgaagc cagacaagac tctgaaacat ggggtgccacc tgaaggtcaa 360

actggtgatg ggcgcactgc attgaatgac cgtttgggtt attgaaaagc tcttccagca 420

acagtt 426

<210> 9565

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-D7



<400> 9565

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cgtcagcacg tccatggagc aagccgacat gccagacgtt ccccgcgtaa agctaggcat 120  
acagcggcctt gaggtgtcta agctggcggtt cggctgcatg gggctaacgg gcacttacia 180  
cacgccactc ggcgacgagg ccatggccga cgtcttcgcg cactcgtttc gtcgagggat 240  
cacctgttta gacacctgct attcctacgg gccacggacc aactagaccc tactggggaa 300  
ggcgctcaag catctgccga gggagcaatt gcatgttgcc accaagttcg tgataa 356

<210> 9566

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-D8

<400> 9566

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gcaagcattg ctgatgctgc atgtgtgtgt gcgatcagtg actggctgct gggtcataga 120  
acatgaactg aaagaaggat gattaagggc tttgtcaatc gccgttacia ctgcatccca 180  
tgcgcatgct cgcttagtag attgggtata atttggtctg gcacaccag catcattatg 240  
tgctgatctg ttatccttta ctagctaggt cgcccgatat atctctacct ttttggggaa 300  
tggtctactg tgtactgaaa 320

<210> 9567

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-D9

<400> 9567

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gtctagcagc agccaccgcc gcctcatcct cgcagccgcc gtctgtctct ccgtgctgc 120  
ggctgccagc gccagcgccg ggacctctg cgtgccgggg tgggccatcc cgcacaaccc 180  
gctcccagc tgccgctggt acgtgaccag ccggacctgc ggcacgggc cgcgcctccc 240

gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300  
 gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccgggcccgg acgcgcagct 360  
 ggagggccgc ctagaggacc tgccgggctg cccgcgggag gtgcagaggg gattcc 416

<210> 9568  
 <211> 313  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-E10

<400> 9568

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 cttgcccttt ttgtgagtgc aacaaatgcg ttcattattc cacaatgctc acttgctccg 120  
 agtgccatta ttccacagtt cctccctcca gttacttcaa tgggcttcga acacccatct 180  
 gtgcaagcct ataggctaca acaagcgctt gcggcgagcg tcttaaaaca accaattgcc 240  
 caattacaac aacaatcctt ggcacatcta accatacaaa ccatcgcaac gcagcagcaa 300  
 caagcactga tcc 313

<210> 9569  
 <211> 420  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-E11

<400> 9569

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 ttgccaccag tcatgccatt gggtagcatg aacccatgca tgcagtactg catgatgcaa 180  
 caggggcttg ccagcttgat ggcgtgtccg tccctgatgc tgcagcaact gttggcctta 240  
 ccgcttcaga cgatgccagt gatgatgcca cagatgatga cgcctaacaat gatgtcacca 300  
 ttgatgatgc cgagcatgat gtcaccaatg gtcttgccga gcatgatgtc gcaaattgatg 360  
 atgccacaat gtcactgcga cgccgtctcg cagattatgc tgcaacagca gttaccattc 420

<210> 9570

<211> 407  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-E12  
  
 <400> 9570  
  
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 gctcaagctg aaccctacc tcggcactgc ccggaagatg gccacccttg ctgaggctgc 120  
 ccgagtcaag gcccggaagg agaagcttga ttccaagagg accaagctta cctcggagga 180  
 gactgccaag gtcaaggctg ccggcaaggc gtggtacaag accatgatct cggacagtga 240  
 ctacaccgag tttgagaact tcaccaagtg gctcggagtg acgcagtga ggggcctttg 300  
 agacctagtt aagttttgat tagttgtgtc gctgaacttt gtattgagac gaaatagtat 360  
 tttatcaatc tgtcttatcc tgcattctca caacaagtta cctatct 407

<210> 9571  
 <211> 149  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-E3  
  
 <400> 9571  
  
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 gcggggttaga gcagaagggg aatttggaat tgctggaaca aaggaaggca atggagaaga 120  
 atatgctttc tatggcacia gagatcgag 149

<210> 9572  
 <211> 365  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-E5  
  
 <400> 9572  
  
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 ggcttccaag acattatccc tccttgcgct tcttgccctt tttgtgagtg caacaaatgc 120  
 gttcattatt ccacaatgct cacttgctcc gagtgccatt attccacagt tcctccctcc 180

agttacttca atgggcttcg aacacccagc tgtgcaagcc tataggctac aacaagcgct 240  
 tgcggcgagc gtcttagaac aaccaattgc ccaattacaa caacaatcct tagcacatct 300  
 aaccatacaa accatcgcaa cgcagcagca acaagcactg agccacctag ccgtgggtgaa 360  
 cccta 365

<210> 9573  
 <211> 368  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-043-Q1-K1-E6  
 <400> 9573

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 gctccgcaag tctgctttgc tgctgcacct gcaagtctgc aaccgcgcac agagatgtcg 120  
 acgactgtga gccgtgcgtc cctcgaccag aaactcgccc tcgccaaagcg ctgctcccga 180  
 gagggcagccc tcgccggagc caaggcggca gccgtggcga ctatcgccctc cgcgatcccc 240  
 accctggcca gcgtgcggat gctgccatgg gccaaaggcca acatcaaccc caccggccag 300  
 gcgctcctcg tctacacggt ggctgggatg gcttacttca tcgccgccga taagaagatc 360  
 ctgtcgtc 368

<210> 9574  
 <211> 359  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-043-Q1-K1-B4  
 <400> 9574

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 gacctgtagg agaagctcga tgccgtggga cacgagaacc ggttcctgtc ctctgagtcc 120  
 cggcgccctcg aggtcctcgt gtcccaggcc cgcgaggagg tcgccgctgc cgagcaagtc 180  
 gccgtcacca acgagagcga ggccctccacg ctccgcgcct aggtcgagcg tctccagggc 240  
 cttctagccg cagagaaggc cagccatgat gaggagatgc gcatgggcgc atggctcggg 300  
 gaccagctgc agaccgcgta ccatgagaag gccgtccttg aggaggagat cgagaccct 359

<210> 9575  
 <211> 367  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-B5

<400> 9575

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 atgggagcca agatTTTTgc cctccttgcc ctccctgctc tttcagcaag cgctgctacc 120  
 tcgactttta ttccacaatg ctcaacaaca tacctctctc cggtgacagc gcggggattt 180  
 caatacccaa ctatacaatc ctacatggta caagaggcca tccaagcaag catcttacgg 240  
 tcattagcat taaccctgca acaaccatat gctctattgc aacagccatc cttaatgcat 300  
 ctgtatctcc aaagaatcgc ggcacaacaa ctacaacaac agttgctacc aacaatcaat 360  
 caagtag 367

<210> 9576  
 <211> 395  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-B7

<400> 9576

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 aggaggggac gaaggtctcc ctggagctct actacgagtc gttgtgcccg tactgctcgc 180  
 ggttcatcgt caaccgtctc gcgggggatct tcgaggacgg gctcatcgac tccgtccacc 240  
 tccggctcgt cactacggc aacgcgcacg tcgcatccaa cagcaagatc tcttgccagc 300  
 atggtccgta cgagtgtctg ctcaacaccg tggaagcttg cgccatcgac gcctggccgg 360  
 atccgatgt gcatttcagc ttcactact gcgtg 395

<210> 9577  
 <211> 127  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-B9

<400> 9577

cggacgcgtg ggttcggctt ggttgatctc tctccttccc tctttgcgtc aggaagcggc 60  
agcttgcaaa cctgggtctca gcactgtaat tatttcttct gttctaccac atcttttggtt 120  
tgttggtt 127

<210> 9578

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-C1

<400> 9578

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ggttacagta agcgtcagat gatgaacatc aggcctgtga attacaactc catagacaac 120  
gacattacat caagcactga cagcactact atataagttt atcatgcaag actattgcat 180  
caagagtgtt gctgtctctt gcagcaagag acaacatgta tgtatacgct ggcgatcaat 240  
agggcaacct gagctcttta ccagcagctt caaccaagtt ttacgtgcac acaggattgg 300  
ctgacagaat tagcccaacg gacagctact ggaagtagga tccctgaagg ttatatcgat 360  
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<210> 9579

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-C11

<400> 9579

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tgcaagcctc ggcttccgtc ccaggatcat ttccaaggta gccaacgatg ctcaaggaag 180  
aagcatectc agcgaactcc aaactgatgg cgtggacaca tcctacatcc tggtcgcaga 240  
gaacgggaac tcacccttca cctacataat agttgatgaa cagacgaaaa ctctacatg 300

tatacacact cctggttctc ctcccatggt gccagaagag ctacaaaagg caaacttgtc 360  
gtccgcttta gatggcgtgg acatcgtcta ctccgatgta cgattgcatg acattgc 417

<210> 9580  
<211> 426  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-043-Q1-K1-C12

<400> 9580

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ctcgctcgta tcgtcgacgt cgtcgaccag aacagggctc ttgttgatgc ccccgacatg 180  
gttcggttgc aaatgaactt caagcggctt tccctgactg acatcaagat tgacattaaa 240  
cgtgtcccaa agaagactac actgatcaag gcaatggagg aagctgatgt gaaaagcaag 300  
tgggagaata gtcctatggg caagaagctg attgttcaga agaggagagc atcactcaat 360  
gactntgaca ggttcaaggt catgttggcg aagatcaaga agggcgggtg cattaggcaa 420  
gagctt 426

<210> 9581  
<211> 431  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-043-Q1-K1-C2

<400> 9581

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attgttgcta gtgagaaagc ttcattgcag atgtctggca atgatgggaa gcgtcctcaa 180  
aaccaagagg aggagactag actggcaatt cctggctatg tgactccatt gaaagctgga 240  
gaggttatgg aatcaaccga aggaatgatg aacaatgaac tggtggcggt agctcctgca 300  
gatggaagca tgtataggga ggaagatgga ttgctgccac agtggttttag tgaagcaatg 360

tctggccccc tgctgagctc angaatgtgc actgaagttt tccagttcga tgtgttccca 420  
 tcatctgctc a 431

<210> 9582  
 <211> 371  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-043-Q1-K1-C4  
 <400> 9582

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 tccgtgctcg cggctgccag cgccagcgcc gggacctcct gcgtgccggg gtgggccatc 180  
 ccgcacaacc cgctcccag ctgccgctgg tacgtgacca gccggacctg cggcatcggg 240  
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 gcgtactgcc ggtgcacggc gctgagcatc ctcatggacg gcgcgatccc gccgggcccc 360  
 gacgcgcagc t 371

<210> 9583  
 <211> 173  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 ttccacttta agtcgtaaga tgggatgaaa aacatagtct ctatgannat tag 173

<210> 9584  
 <211> 409  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-043-Q1-K1-C6  
 <400> 9584



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 ccatgaaccc atggatgcag tactgcatga agcatcaggg ggttgccaac ttgctagcgt 180  
 ggccgaccct gatgctgcag caactgttgg cctcaccgct tcagccgtgc cagatgccaa 240  
 tgatgatgcc aggtatgatg ccaccgatga caatgatgcc gatgccgaat atgatgccat 300  
 cgatgatggt gccgactatg atgtcaccaa taacgatagc tagtatgatg ccaccgatga 360  
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<210> 9585

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-C7

<400> 9585

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 gggagcattg aggggtcatt tggaactttc aatgtgaaca acgtccaagt gtttgctggc 180  
 tatgttctac atattggctc atttcaaaaa ggttcgaagg ttatgtctct tggagatagt 240  
 gtgatatgca aggttgatta caaccggctc aacttgattg ctccaaatca tacgtgtacc 300  
 cacatgttga actttgctct aagggaagta cttggtgatc atgttgacca ga 352

<210> 9586

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-C8

<400> 9586

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 gtggtgcgga ggcgcggctg ctctgctcg tcgcgacatc gaatttcagc gccgcccgcg 180  
 cgatccttgg tctcttcgcc cgtgaggaga ggcgcggcaa tggctgggaa aggcggggccg 240

accaacctgg agaaggagca gatgtttggg atggcggaga aggagatgga gtacaggggtt 300  
 gatcttttca acaggcttac aaagacctgt tttgagaagt gcgttgaaaa aaggtataaa 360  
 gaagctgagc tcaatatggg tgagaacagt tgcattgatc gatgtgtttc 410

<210> 9587  
 <211> 298  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-B3  
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 atgtacaagg agtaccgcga cacaaccctg aacggcgctg tagaacagat gtacaatgag 180  
 atggcttctc gccaccgcgt gaggtcccc tgcatccaga tcatcaagac cgtcacgggtg 240  
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<210> 9588  
 <211> 397  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-042-Q1-K1-H9  
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 gaaaccggca tccctggctg tgtgtttgtc cacatgagtg gcttcattgg gggcaacatg 180  
 acctacgagg gagcattgga aatggcgaga gctgctctga aattctgatt caaccaaagc 240  
 atattacccg tgttaccatt atatcagtaa acacatcagt aacacatgat gcagttgcgc 300  
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<210> 9589  
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<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-A10  
  
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 tcattattcc acaatgctca cttgctccta gtgccattat accacagtgc ctccgaccag 180  
 ttacttcaat gggcttcgaa cacctagctg tgcaagccta caagctacaa caagcgcttg 240  
 cggcgagcgt cttacaacaa ccaattaacc aattgcaaca acaatccttg gcacatctaa 300  
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 <211> 411  
 <212> DNA  
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 ggctctgaca ttgttattgt agcaaggaca gattctcgcc aagctatttc tcatgatgaa 240  
 gcattatgga gggtgaaagc atttgctgat gctggagcag atgttctatt tattgatgcc 300  
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<210> 9591  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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<400> 9591

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-A4

<400> 9592

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cacgcataca agcggcagct gcggctgcca gccaccgtcg tcggttcac taccgtcgtc 180

ggtgcatctg ccacctgcgg ttacacctgcc acctactgtg catctgccac cgtcggtcca 240

cctgccgcgc ccgggtccacc tgccaccgac ggtccatgtg ccgacgcgg ttcactctgcc 300

gtcgacacca tgccactacc ctactcaacc gtcccggcct cagcctcatc cccagccaca 360

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-A5

<400> 9593

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agggcacatc tgggttcggt tgggtgttcg ggaagccttg ccctccaatc tatgtacact 180

ttatcaggtg gtcagaagag tagggttgca ttcgcgaaaa taaccttcaa gaagccgcac 240

atcattctcc ttgacgagcc ttctaaccat cttgatctgg acgtgttgga ggcgctcatc 300

caagggttac tcatttttca gggaagggtg ctgatggtga gtcacgatga gcatcttacc 360

actggaagcg tggacgagct ttgggtggtg t 391

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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-043-Q1-K1-A6  
  
<400> 9594

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aactaataag caatctaaaa gagggcccca ccaatgatgt gtcgttggtg ggaggccgct 180  
gggatctgtc aaagcaagtt ggacaaaggg caacaattgt tgtaacttgt aagaggggtg 240  
cggggttagc cgcaaactgc tgtagaaaag gcatcaactg tctctgtgtc aagaaagaaa 300  
cacggtttgc tgcagctagc ttgctaaatg gcaataagat ttgctgctgc aaataagcag 360  
ccgggttcag tgcggccaat tgggttaaag gaa 393

<210> 9595  
<211> 404  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-043-Q1-K1-A7  
  
<400> 9595

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ttcattattc cacagtgtc acttgctcct agtgccagta ttccacagtt cctcccacca 180  
gttacttcaa tgggcttcga acatccagcc gtgcaagcct acaggctaca actagcgctt 240  
gctgcgagcg ccttacaaca accaattgcc caattgcaac aacaatcctt ggcacatcta 300  
accctacaaa ccattgcaac gcaacaacaa caacgacagt ttctgacatc actgagccac 360  
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<210> 9596  
<211> 449  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-A8

<400> 9596

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caagaatata ttctacttgc ttatatggag gtgctccaaa aggccctcag ctaacacagt 120  
tgagagcgtg tgctgacata gttgtcgcaa ctctctgggag attaaatgac attttgga 180  
tgaatagagt gagcctgcac caagtatcat atcttgtcct tgatgaagcc gaccgtatgc 240  
ttgatatggg atttgagcca cacataacga aaattgtgaa acaaatacca ccgaaacggc 300  
aaactcttat gtatactgcc acatggccaa cagaggctag aacaatagcg tctgatttac 360  
tggttaaccc agttcaagtt aacattggaa aactgatca actagctgca aataagtcaa 420  
ttacacagca tgtggaacgt atcccacat 449

<210> 9597

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-A9

<400> 9597

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tatactgact tttgacaagg cgtagctat gaagcctgac tacaccgacg caaaagctga 120  
ccgtgaaact gctgctcgcc tagtcaagaa acgaggacag ctgcatacgt caggtttaag 180  
tgctaacaaa agacgcttca cagttgggga gtacccaaag gagggagggtg cagaggggtga 240  
agaaaaaggg aaagaaacag ccgagcaact ccaaagatc acccatgaaa attagctaaa 300  
ttaactgatt ttgatactgt gtaaaataga tattacaaaa aaatattaca ttagtggttg 360  
tcacctgctt taattcgtaa aggaacat aacacggcaa tacaattaac gata 414

<210> 9598

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-B11

<400> 9598

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ttccctcaat gtcacaagc tcctatagct tcccttcttc ccccatacct tccatcaatg 180  
atagcttcag tatgtgaaaa ccagctctt cagccctata ggctccaaca agcaatcgca 240  
gcaagcaaca tacctttatc acccttggtg tttcaacaat cgccagccct atctttggtg 300  
cagtcattgg taaaaacat cagggcacag cagctgcagc aactcgtgct acctgtgatc 360  
aaccaagtag ctctggcaaa cctttctccc tactctcagc aacaacaatt tcttcc 416

<210> 9599

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-B12

<400> 9599

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ttcaagaagt ggggaggtat agaatttcct ctaccttttg gaagagtact cagccctaca 180  
gaaagtttca tccatgaact agatgagaag acaagtgcct ctctgaagtt cacggttttg 240  
aacccgaaag gtcgcatctg gaccatgggc gctgggtggtg gtgctagtgt catttatgct 300  
gatacagttg gagacttggg atatgcatca gagcttggaa actatgcaga gtatagtgg 360  
gtctctaattg aagaagaagt tctgaattat tct 393

<210> 9600

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-H7

<400> 9600

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gactacgtag acgtcagtgt tgctgttggc acttccaagg gccttgtggt gcctgttatc 120

cgagatgctg ataccatgaa ctttgctgac attgagaaag ggataaaca ccttgcaaag 180  
aaggcaaatg agggggcgct ctcgattgat gacatggcag gaggaacatt cactatctcc 240  
aatggtggtg tctatggaag cctcctcagc acacctatca tcaaccgccc acagtcgtca 300  
attctgggga tgcattccat tgtgcaacgc cctgtggttg tgaatggtga cattctcgca 360  
aggccaatga tgttccttgc gctgacatat gaccacaggc tgatcgatgg cag 413

<210> 9601

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-G10

<400> 9601

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ataccacact ttttaattcct ctaaccaaca ttataacatc ctctactata caacacactc 180  
atctaacata cctctaacta ttacacactc atacttcttt atatccataa tccttcctac 240  
cacaataact cctaaacata attacactcc taaaaacatt agaacctcat ata 293

<210> 9602

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-G4

<400> 9602

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gatggctatg ataagcagac cgaggatfff caaccattat gcaccatagg tcctggatff 120  
tctgagcaac agcttgaaga acgttctgag agccttcgaa gtaaagtgat agaaaaacca 180  
aaggcatact atagatttgg cgacacaatg aaccccgatg tgtgggttga gccatcagag 240  
gtctggggagg tcaaagctgc cgatctgagc ataagccctg tacatcgtgc tgccaatggt 300  
atagtcgac caaataaggt ctgtagttct tttttgcatt gccattctc cccatctcga 360  
ttgtatactt ctggtatagt atgttggaag gctaagtctg aaatcgaacc aaggtatctc 420



tctaagattc cctc

434

<210> 9603

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-042-Q1-K1-G5

<400> 9603

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tcaccacagc aaggctcgtct caggctacct ctttgcctaa cgactcggat gagaacgagt 120

gcgtctggga cgcttcgctc catgcgagt gcaatgttag cctcatagt agtattgaca 180

gcatgggtgt cgtcactgct atgagcactg tcaacagctg cagcagcaca tatacaagcg 240

cgaccatagc tggatgaagca atgctcaatg ctgagaggaa ctgtgagagt gtcaagggtg 300

ttcgaagtga cttactagaa agcgactag ctagcatgag tccagcaagt gatagcactg 360

gtgatagtga tgacagcagc tggatccaca tcaactggacg tgccagtang cctcacaggg 420

ggaatga 427

<210> 9604

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-G6

<400> 9604

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ataccacatc attatcctct taggctacct ctcaacctca gcaatcgtat caaaactact 120

acatctctca cactctccta tatcctactt tcaatcttaa tacctcataa taacattgac 180

attctgtgtg tcaacactca tatgatcact cttacaagct ccaacaagca catctaaaat 240

cgcattctat aattatcaaa ccagttctca aagcatccat taactctatt actataaata 300

cctttcgacc atacttacta tcaaatcatc aagctaccac aactacaaca acttata 357

<210> 9605

<211> 429

<212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-042-Q1-K1-G7

<400> 9605

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ctcacttgct cctagtgcc a ttattccaca gttcctccct ccagttactt caatgggctt  180
cgaacaccca gctgtgcaag cctacaggct acaacaagcg cttgcggcga gcgtcttaca  240
acaaccaatt gcccaattac aacaacaatc cttggcacat ctaaccatac aaaccatcgc  300
aacgcaacag caacaacaat ttctaccagc actgagccaa ctagctgtgg tgaaccctgt  360
cgnctacttg gcacagcagt tgcttgcac caaccactt gcttttgcan acatagttgc  420
ataccaaca                                     429
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-042-Q1-K1-G9

<400> 9606

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tcctaagttg gaaaaggctc caaattctag ggttgctcgac tctggtgtcc tgaggggaat  120
gaatttagaa gacatcagga aagctgggga gcggcttatt cttcagggtg gctgtaaaaa  180
tttctttcag aagattgtaa aaacaaggga gatcctcaat ttggatatcc atattctttc  240
ctactgctgg tgtgcagagc ttataagatc cgccttctca tcagccggtt gtctagatgg  300
tctgaacata catgcgaacg agttcgccct tgaggaatct gtttcaaccg gtgagattga  360
cagaaagatc cagtccccgc tagacaaggt tgagaagttc aagagcatca               410
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 <211> 373  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-042-Q1-K1-H1

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cgcacctggc tggcgtcgac tgccgcgtgg gactggcgag gtacgatgcc cagctcgggc 180  
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tggcgctgct ggcctncccc cactcccact ccagtcacca gcagcggcac gcggcgacca 300  
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<210> 9608  
<211> 423  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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ctcctataca gcataaatga attatattgc ttacctgtt ggtagaaaga accttgaaag 180  
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tgagtcttct tcattggtct attgtgtaac atgtacacag gtttgtggtt cgtcttgtct 360  
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ata 423

<210> 9609  
<211> 255  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-H4

<400> 9609

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ggcatggcat atccatccaa attccaaaat aatgttctga tactatgttt tactgtgtat 180

gcccataaac cattgatgga taaaaaaaaa caaaagtaaa acgtatacag caacagaaaa 240

aaatgcctaa ccatac 255

<210> 9610

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-H5

<400> 9610

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ccacggctgc tccatctgga tctttggatc ccactgcttc caactgcata aaagaagcag 180

aagaaaatga gcttgaattt gccttggcag atttcttagg acggatccat agaaattgca 240

acaataatgg ggagttatgt acggagatga aagccctaatt ccaaacaag attgcagagc 300

tagataatcc tccgtgcaca tttgcttatg agcagcaaac ttcacggggt gacgaatatg 360

atactgctgg tggcaaa 377

<210> 9611

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-H6

<400> 9611

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ggtgcagcag ctgctgcagg acttcttcaa cggaaaggaa ttgtgcaaga gcatcaaccc 180

cgacgaggct gtggcgtacg gcgccgtgt ccaggctgcc atcctcagcg gcgagggcaa 240

cgaaaaggta caagatctgc tctgtctcga cgtcacgcca ctgtctctcg gcttggagac 300  
tgcaagtggc gtcattgactg tgctgatccc gacgaacacc accatccccga ccaagaagga 360  
gcatgtcttc tccacgtact ccgacaacca gccgggctgc ctgatccagg tgtacgaggg 420  
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<210> 9612  
<211> 368  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-042-Q1-K1-G1  
<400> 9612

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gggcacgtgg tggaggtgcc gccggagctg gtggcgagcg gcaaccggac gccgtcgccc 180  
aagacgaaag cgtcgcagct ggtggggcgc tttctggccg cgtccgagcc ggtcgtgtcc 240  
gtgcagctcg gcgaccacgg ncacctcgcc tactcccaca ccaaccaggc gtcctccgg 300  
cccaggctgt tcgcggccaa tgacgaagtg ttctgcctgt tcgaaggggt gctggacaac 360  
ctgggtcg 368

<210> 9613  
<211> 317  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-042-Q1-K1-E4  
<400> 9613

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tgtgaaaggt gccacttaag gtggcttctt taccggttgt tggtcgtgcc aacaaccttg 120  
tggttttgtt aagtgggaag caaatccctg ctgttggtgt gagccttga attgaaagag 180  
tctttgcaat catggagcag caggagaaag aaagaaatga gaagatccgg cctacaaaga 240  
cagaggtgct ggtgtcaatt cttggaaagg accttaccct aactgccgag ctctgagcgc 300  
agctgtggaa tgcttgg 317

<210> 9614  
 <211> 318  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-E5

<400> 9614

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 tccccatacc ttgcatcaat gatagcttca gtatgtgaaa acccagctct tcaaccctat 180  
 aggctacaac aagcaatcgc agctagcaac atacctttat cacccttggt tcaacaatcg 240  
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<210> 9615  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-042-Q1-K1-E6

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 cctgctctcc gtgctcgcgg ctgccagcgc cagcgccggg acctcctgcg tgccgggggtg 180  
 ggccatcccc cacaaccgcg tcccagctg cgcgtggtac gtgaccagcc ggacctgcgg 240  
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 catcccggcg tactgccggt gcacggcgct gagcatcctc atggacggcg cgatcccgcc 360  
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 gc 422

<210> 9616  
 <211> 429  
 <212> DNA

<213> Zea mays

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<400> 9616

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gggcaggcgt cgccgacgga cgtgttcaga gtcttttacg cggacaggct ggtgtggagg  180
ctcgtcgtga aggcggcggg ggcgccaggg catgggtcga ggatgttgga cggcgccgcc  240
gttgacaatt tgatggattg cgtggagacc atcgctgcgt tcagggatgc gcagttcagg  300
atggtgaagt ccggggagaa gggtcctggg gaggtggtct cagtcaaccc tgtgtacatg  360
aaggccggca taccaagccc cacgggtttc gtgatgaaca tgcaaccttc agaagcggag  420
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<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-E9

<400> 9617

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tcccgaatg ctcaaaagct cctatagctt ctcttcttcc ccataacctc tcaccagcgt  180
tgtcttcagt atgtgaaaac ccaattcttc aaccctacag gatccaacag gcaatcacag  240
caggcatctt acctttatca cccttggttc tccaacaatc atcagcccta ttacatcaat  300
tacctttggt gcatttattg gcacaaaaca tcagggcaca acaactacaa caactcgtgc  360
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<210> 9618

<211> 262

<212> DNA

<213> Zea mays

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<400> 9618

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cccttgattg caaagtacta actcttcata atcgtaccct aaattaactt cactgcccgt 180

catttaacaa cttcgggact gagaaaacct tggcggtttcc aaaattaatc tccttgagct 240

aatccccct ttctccatat gg 262

<210> 9619

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-F2

<400> 9619

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acccggtaca aagccaagaa cggggctgct gggcgcaagg ctggcgggcc caggaagaag 180

tcggtgtcgc ggtccctcaa agcccggctg cagttccccg ttggccggat cgggcgctac 240

ctcaagaagg gccggtacgc ccaacgcgtg ggcaccggcg cccccgtcta 290

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<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-F3

<400> 9620

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ccgggagccc atacgcaaga actgaagctt tgacgcgcaa ccccaaaact tgcgcgcgcc 120

cttttccctc cgcggcgtca tcttggaacg ctctccgatc caagatgtat aagctgggaa 180

gaggaaaccg cgacaagtg cagcagttca tgaccattac cggcgccagt gagaaggttg 240

cccttcaggc actgaaagct agtgattggc acttggaagg agcttttgac ttcttctata 300

gccaacctca agtttctgtg gtcaatacgt cgcattctga agatattttc aacagatata 360



aagaacctga tgctgatatg ataatggtgg 390

<210> 9621

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-F4

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gaatctaatt tcagctgttg catggttggt gcccttaagt tccggttttc cctttttaac 120

aagtggccgt aaggttcatt tttttgaatt taaaaaaatt gctaaaggcc ggaattatta 180

tggtttttaa ctggaaaatt aaccttacct taaaaagg 218

<210> 9622

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-F5

<400> 9622

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gaacgccatc gagggcatga acggcaagga gctggacggc cgcaacatca ccgtcaacga 120

ggcccagtc cgcggcgccc gtggaggcgg cggcgggtggg tacggtggtg gccgtggagg 180

cggcggctac agcggtggcg ggcgcctga tggcggcggc ggctacggcg gtggcggcgg 240

ctacggtggc ggcggcggct acggtggtgg tggcggcggc tacggcggtg gcaaccgtgg 300

cggcggctac ggcaactccg acgggaactg gaggaactga gcggtggtgc ccgcgcggcc 360

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<212> DNA

<213> Zea mays

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<400> 9623

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aaaaaagaaa aaattaaaaa taaaaaaaaat acgacagaaa aaaaaaaaaa aaaaaaaaaa 180  
aaaaaaccaa ataattaaaa aattactaca aaataaatta atccaaaaaa aattagataa 240  
caatttaaaa ttaaaaataa aagaaaataa aatgaaattt taaattttaa atttctataa 300  
caaagaataa aaaaaaattt taattaatct aaagactaaa aaaccgggtt acctaataaa 360  
aaaaaacgta aaaataaaaa aaaatatggc ttaaaattaa atccggaata aaaaaaatta 420  
ttcaaattaa atttaagaat 440

<210> 9624  
<211> 441  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-042-Q1-K1-F8  
<400> 9624

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cgtggtggtg gtaatgctgc agctagggca gttttctggc accctaggaa aggctcgtcc 180  
tacactctag ccttcgaaac agacagggac aggaatgctg cgattatgat tgctcgcaag 240  
ttcgcttcga attgcaatat cgctctcgtt ggcccaggcg accaaggcac ctgatgaagt 300  
gatcacgcta tgttttgacg gcgacaacag tacataatta gggcgtggat tggctgattg 360  
gggtggcgtgc ttgtcttagt tttgtcgatt tgtgcttggt agggtagagg ttgtacacgg 420  
cgtgaggcat tgtttttggt t 441

<210> 9625  
<211> 421  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-042-Q1-K1-F9  
<400> 9625

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tggtagcttt ggcggagttg ctaaaatatt aggggggcta aatccagatt atggaaattc 120  
 tgcacaaaaa gtaatgttct attctgctag gggctctgac cctgaggaca atacactgtc 180  
 aaatgctgat atcttgaaac ccaatctagt agcacccgga aattcgattt ggggtgcttg 240  
 gagttcactt ggattggatt ctgctgaatt ttctggtgaa agtttcgcga tgctctctgg 300  
 cacaagtatg gctgcacccc atgttgctgg cctggctgct ctaatcaagc agaagtttcc 360  
 ttcttttagc ccagcagcta tagcttctgc attgtctaca accacaactc ttagtgacag 420  
 g 421

<210> 9626  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
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 ggagcccaag gaggagaacg ttacccttgg acccactgtc cgtgaaggag agtttgtctt 180  
 tgggtgttgct cacatctttg catccttcaa tgacaccttc attcatgtca ctgatttgtc 240  
 tgggagggaa actttggttc ggatcactgg tggcatgaag gttaaggctg atcgtgatga 300  
 gtcgtctcct tatgctgcta tgcttgctgc ccaagatgtt gcacagcgtt gcaaggagct 360  
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 t 421

<210> 9627  
 <211> 350  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-042-Q1-K1-C6  
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caaccacagt tgttgcggtt ctaccagcac gctgcgccta acgctggcac cctcttataa 180  
 ctgcaacaat tgctgccatt caaccaactt gctttgacaa acctagcagt gttctaccaa 240  
 caacccatca ttggtgggtgc cctcttttag atttcttatg agttatagtt caataataaa 300  
 gttttttgtc tgatgtttgt ggcttcccag aaataagaaa gtacatttct 350

<210> 9628  
 <211> 263  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-042-Q1-K1-C7  
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 gcagcagaag catggcgcca tgatgacggc gctcaaggtc gcgacggccg cgacctacag 180  
 ctgctcgatg ctggtgctgt ccgggctgat cctgtgcggc accgagatcg cgcttacggt 240  
 ggccacatct gtgctggtga tct 263

<210> 9629  
 <211> 341  
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 <213> Zea mays  
 <223> Clone ID: LIB3059-042-Q1-K1-C9  
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 tctaccacat caacctgtca ctaatcattg ctacttata taagaacata agtagtattt 120  
 gctattgtca agtgttgcc ttcttgatac aagttgtgtt ttcgtatcat tattattatg 180  
 cactgtcatc ttacgtgtat atctcgtatg tgttattgtc aactttataa aagcacactc 240  
 tgtttgcta aaaaaaaaaa aataaacaaa cctatatctg gtgcgtatat ttatacaaac 300  
 aatcaatgca ttaatatatt tatattaaat ttatatatat c 341

<210> 9630  
 <211> 368  
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<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-042-Q1-K1-D1

<400> 9630

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ctccctactc tcagcaacaa caattttcttc cattcaacca actgtctaca ttgaaccgtg 180

ctgcttattt gcagcaacaa ctattaccat tcagccagct agctactgcc tactctcagc 240

aacaacaact tcttccattt aaccaattgg ccgcactgaa ccccgctgct tatttgcagc 300

agcaaatact actaccattt agccagctag ctgcagcaag ccgtgcttcc ttcttgacac 360

agcaacag 368

<210> 9631

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<213> Zea mays

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<400> 9631

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cataaatctt aactattccc acctcatatt tagttttccaa attaacatca agcacattat 120

tactctactt catcactatc atctttcaac atattataga taat 164

<210> 9632

<211> 416

<212> DNA

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<400> 9632

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gtcgccgcgt ccctggctcg cacggcctca ggggcagagg gaccggcgcc cgctccgacg 180

tccgccgcg cgctcatggc cgcgccggcc gttgccgctg cgtccttcac cgcgcttgct 240

ttcggctacc tcttctgaac gccgtgaaca ttcacgcgta caccgtgttg cccagccga 300  
attgtttgcc tgctcagatt tttcttcttc tctgtctcgc tctcgtgttt tgggtgtgtat 360  
aggtttgtaa ttacgtgttc atttttttta ttgcgtgacc atggatctcg taatta 416

<210> 9633  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-D3

<400> 9633

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agctcacttg aagggtggtg ccaagaaggt tgtcatctct gtccttagca aggatgcccc 180  
catgtttgtc gttggtgtca acgagaagga gtacaagtct gacattaaca ttgtctccaa 240  
tgctagctgc acaaccaact gccttgctcc tcttgctaag gtcacatg acaagttcgg 300  
tatcggtgag ggtctgatga ccactgtcca tgccatcact gctaccaga agactgttga 360  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-D4

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cacgttcaac ggcttttc 138

<210> 9635  
<211> 389  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-D5

<400> 9635

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attatcatgt gtggtatgac caatactata tgcattggta taataaagtt ttgggtataa 180  
tgaatctatc ggccgcttga tgtctatgat ggacaaatca aaacttctcc tgtcaggcat 240  
gtaaatattt caaaatctct attcaggctc aaattcatag cacaaaaata gaaccaaca 300  
agaccagata tacttgaagc caaacaagac tctgaaacat gggtgcaacc tgaagggtcaa 360  
actggtgatg ggcgcactga attgaatga 389

<210> 9636

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-D7

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aggatatatg ttccttcaag atcgcattgt cttcaattac tggaaacctct tgaatgctga 180  
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tggtacaac attgagtgtt ttgtgaacca aggagatatg attaaaaagg cggatcatcaa 300  
ttgtccatct caatatcaag ataattacag gagaagtgtg cgtgaaaata atctgattcg 360  
ttgcaacagt gaaatatttt acgtacctca acggtacacc cgtgatttct cagatcttgt 420  
aaaaagtatt gggagctta 439

<210> 9637

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-D8

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 tggtcacgaa aagccagaag ttacagcagt atcaattgat ccaaattttt cttcttatct 180  
 ttttggcgag tatttatgta gtacgtcaga caagaaatta tctgaaggcg tctaccttgc 240  
 aaggaataag cggaaatatt cagataatga tgaaccttca gattttttga aggcaatgga 300  
 tggatatcaa gttgtgaatg gtctcgaatg caagatatcc tgcaagacct ctaagggtctc 360  
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 <211> 438  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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 caacagtgtt gccagcagca gatgaggatg atggacgtgc agtccgtcgc gcagcagctg 360  
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<210> 9639  
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 <213> Zea mays  
  
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agaggagatg ctgccgggag ctggcggaca tcccggcgta ctgccggtgc acggcgctga 240  
gcaccccat ggacggcgcg atcccgcgg gcccgagcg gcagctggag ggccgcctag 300  
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<210> 9640

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-E11

<400> 9640

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gatggaattg aattgggttg aataccaaat caggcatgat attgaaatga gatataattt 180  
caattctatt gtttggtatg cactgaattg gagtttgga ttatgcggtc taattctagg 240  
caataccgag ggggtgagc tttgtattgg aagagggggt ttctagttat agtctaattt 300  
cagggaattg ggctctgat tccaaatctc aattccacat gcaacgaatc atcataattt 360  
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<210> 9641

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-A8

<400> 9641

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acaacaaaga agggttctat tacatctgtg caggccatct acgtgcctgc cgatgacttg 180  
acggatcctg ctctgctac tacctttgcc catcttgatg ctacaactgt gttgtcacga 240  
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ctttctcccc acgtgctggg tgaggatcac tacaacactg ctctggtgt gcagaaggtt 360  
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<210> 9642  
 <211> 375  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-A9

<400> 9642

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 accgcccgaag gggcccaggc cgttttgacg gcgacaggcc aaggtttggg gacagggatg 180  
 ggtaccgtgg tggctctcgt ggtgctcctg gtgactttgg tggcgataag agtggagctc 240  
 ctgctgagtt ccagccatca ttcaggaggc ctggctttgg gcgtgggtggc ggcagcggct 300  
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<210> 9643  
 <211> 189  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-B1

<400> 9643

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 aacattgcc aactgactctt gggagactac agagcccggg tacagctcaa gaattcaaag 120  
 cttagcattg cacaattatg ctggtttggg ggaaggtttt gagttaatca tatctaaact 180  
 gagttgggt 189

<210> 9644  
 <211> 356  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-B10

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atcatcaatt tcttccattc aaccaactgt ctacactgaa ccctgctgct tatttgcagc 180  
atcaactatt accatttagc cagctagcta ctgcctactc tcagcaacaa caacttcttc 240  
catttaacca attggccgca ctgaaccccg ctgcttattt gcagcagcaa atactactac 300  
catttagcca gctagctgca acaaaccgtg cttacttctt gacacagcaa cagttg 356

<210> 9645

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-B2

<400> 9645

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aaggcacctc gttttgaagc acattccaac caacaattct gccgatactt gttctacttg 180  
ggcaaaatta ggacaattca gttggagtac actgatgcta aagaaagcct tctgcaagct 240  
gctcgtgaagg caccaacaac tgcccgtggt ttccggatcc agtgcaacaa atgggctatc 300  
atagtgaggc tgctgcttgg tgagattcca gagaggactt gtttcatgca gaaaggaatg 360  
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<210> 9646

<211> 133

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-B3

<400> 9646

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aatgcttact tgc

133

<210> 9647

<211> 433

<212> DNA

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<223> Clone ID: LIB3059-042-Q1-K1-B6

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tctccaaggc cgggtctcaag cccaccgaca ccgtcctgga gatcggggccg gtcacaggaa 180

acctaccaa gcgcctcctc gaggctgggt tcaaggccgt cgtcgccgtc gagctcgacc 240

cgcgtatggt gctcgagctc aaccggcagt tccaggggca cctgctctcc tcgcgcctca 300

aggttatcca aggagatgtc ctcaaagtgt atctcgcata ctttgatatt tgtgtggcag 360

acatcccgta ccagatctct tctcccttta ctctcaagct tctgtcacac cgtacaattt 420

ttacgtgtgc tgt 433

<210> 9648

<211> 381

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-042-Q1-K1-B7

<400> 9648

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gcccgggcag aagtggcacg tctactacgc cgctgagcac cctgaggagc ctgttggttac 180

tctagagatg tgcattgact ggctggacaa gaagaaagct tctgtcttct tcaagaccac 240

tgctgatggt tactcgctgt gcgccaagga gatgaccaag ctctctggta tctcggacat 300

catccagag atggagatct gtgacttcga cttcgagccc ttgggctact ccatgaatgc 360

tgntcatggc cctgctttgt c 381

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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-042-Q1-K1-B8  
  
 <400> 9649  
  
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 gtagcaacaa cagagcaaca atggcgacca agatattttc cctccttatg ctccttgctc 120  
 tttctgcatg tgttgctaac gcgacaattt tccctcaatg ctcacaagct cctatagctt 180  
 cccttcttcc ccatacctt ccatcaatga tagcttcagt atgtgaaaac ccagctcttc 240  
 agccctatag gctccaacaa gcaatcgag caagcaacat acctttatca cccttggtgt 300  
 ttcaacaatc gccagcccta tctttggtgc agtcattggt acaaaccatc agggcacagc 360  
 agctgcagca actcgtgcta 380

<210> 9650  
 <211> 442  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-042-Q1-K1-B9  
  
 <400> 9650  
  
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 ccgcttctcc gccaggaagg cagttatcgt gcgcgtgttc gatgagggca cccgcgaccg 180  
 tccctatggc cactgcctcg tcgcaagcct cgccaagtac ccaaagaagg tgatccgcat 240  
 ggactccgtc aagaagactg cgaagaagtc gcgcgtcaag tgcttcatca agctcgtcaa 300  
 cttactcac ctcatgccca cccgctacac cctcgacgtc gatttcaagg atgtcgccac 360  
 cgggtggccc gacgcactct ctaccacga caagaaggtc gccgcctgca agacggccaa 420  
 agcgcgcctt gaggagaggt tc 442

<210> 9651  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-C11

<400> 9651

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tactcagcta gctgtggcaa accctgctgc ctacttgcaa caactacttc cattcaacca 180  
actgactgtg tcgaactctg ctgcgtacct acaacagcga caacagttac ttaatccact 240  
agcgggtggc aaccatttgg tcgctgcctt cctacagcag caacaattgc tgccatacaa 300  
ccagttctct ttgatgaacc ctgccttgct gtggcagcaa cccatcgttg gtggtgccat 360  
cttttagatt acatatgaga tgtactcgat aatgggtgcc tcatagcggc atgtgt 416

<210> 9652

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-042-Q1-K1-C12

<400> 9652

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tgttctctga caatgtgctt gcaagtgtg tggttgtcaa ctctacaatt gctgcatcaa 180  
aggatcctgg aaggatatta ttacatattg taactgacgc gttgaattat cctgcaatga 240  
tgatgtggtt tctgacaaac ccaccaactc catcagtaat ccaaattccag agcctagatg 300  
atgtgaaatg gttgcctggg gatttcagtt ccagattcaa gctgaagggg gttcgggatc 360  
cgagatacac ttctgcactc aaccacttgc gttntatatt gccagaagtg tttccatctt 420  
tgag 424

<210> 9653

<211> 206

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-C2

<400> 9653

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tttttttttt tttttttttt tttttaattt tttttattat ttttttattt ttttttttta 180

aaaaaaaaa aattttttttt tttttt 206

<210> 9654

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-C3

<400> 9654

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ccttaccaag ggaaaaattg gttgtatcca aggatggcat tactgaccac caaattaatg 120

accagaaaag aaccccaaat tctgttgccc gaactaccgt gagccctcca aggtcaaagg 180

atgetgacat ggatgatgtg aaaccacaaa gcttaagctc tcggagctac ctgaaaagtg 240

ca 242

<210> 9655

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-G9

<400> 9655

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cttttgagag aagattattht ggacacaaat gcattcaccc catatgataa gttctgcccc 120

ttctacaaat ccgtttggat gatgcgcaac attattcact tcaacacatt ggcaaatcaa 180

gctgtggagc gggcagctgg tactgacggc cataagataa catacagtgt cataaagcat 240

cggttggggg atctaattta tcccctaata tcccacaaat tccaagattc cttcaaaagc 300

caaaaagctt ttgtcggcaa gtttaagaaa ctttattacg accttaccac tggggtccgc 360

aacct 365

<210> 9656  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-041-Q1-K1-H10  
  
 <400> 9656

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gctggccaaa gtgaaggcgc aggtttcaga agtcaagggt gttatgatgg aaaacattga  180
aaaggttctg gatcgtggag agaagattga gctgcttgct gacaagaccg agaatcttcg  240
ctcacaggca caagatttca gacagcaggg aacaaatgtc aggagaaaga tgtggttaca  300
gaacatgaaa atcaagctca tcgtcctggg aataatcatc gcactcattc tgatcattat  360
cctctctgtc tgtcatggtt tcaaatgcc a ttaagcacag accagaatac tgatacattc  420
a                                                                                   421
  
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<210> 9657  
 <211> 448  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-041-Q1-K1-H11  
  
 <400> 9657

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tgcacagaaa tatccatacc ttgcatcaat gggcatttat gtcttcaaga aagatgcact  120
tttagacctt ctcaagtcaa aatatactca attacatgac tttggatctg aaatcctccc  180
aagagctgta ctagatcata gtgtgcaggc atgcattttt acgggctatt gggaggatgt  240
tggaacaatc aaatcattct ttgatgcaaa cttggccctc actgagcagc cttccaagtt  300
tgatttttac gatccaaaaa cacctttctt cactgcaccc cgatgcttgc cttcgacgca  360
attggacaag tgcaagatga aatatgcatt tatctcagat gggttgcttac tgagagaatg  420
caacatcgag cattctgtga ttggagtc                                                                                   448
  
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 <211> 418  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-041-Q1-K1-H12  
  
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 cggagccatt gagttaagct ttgtcctcga caaactgctg ggctgagtt gtaaggttat 120  
 caatgtgagg tctggcgatg agcttcctga aaagtgcaga gaacttgcca ggcattttga 180  
 aaccagggga actcctgtga tgattggtgg tggagtcttg gcttacaccc ttttgggagt 240  
 tgattataac gaagccagtg gagattgtgc atttcttata cttgatccgc actacactgg 300  
 tactgacgat ctcaaaaaga ttgtaaatgg cggatggtgc ggatggaaga agtctgtcga 360  
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<210> 9659  
 <211> 446  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-041-Q1-K1-H4  
  
 <400> 9659  
  
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 aaggaaaaaa aaatcttaat ttctttgcta acgaaaatgg ttggttcacg gcaatgcggc 180  
 cttcaggttc ttggcgaact cttctagctt cttcaatcct tcttctggag aagcagcttc 240  
 ctccaacgtc ttcactactg cgctaccgat aatcacacca tctgcgcccc atcctgcaat 300  
 ctgccggaca tgctctggag tcgacacacc aaagccaaca gccacgggtt tttctgtcac 360  
 cttcttgata tctgaagaa gagattgcac cttgccgctt acatttgac gtgtaccagt 420  
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<210> 9660  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-H5

<400> 9660

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ccaccagtca tgccattggg taccatgaac ccatgcatgc agtactgcat gatgcaacag 180  
gggcttgcca gcttgatggc gtgtccgtcc ctgatgctgc agcaactgtt ggccttaccg 240  
cttcagacga tgccagtgat gatgccacag atgatgacgc ctaacatgat gtcaccattg 300  
atgatgccga gcatgatgtc accaatgggc ttgccgagca tgatgtcgca aatgatgatg 360  
ccacaatgtc actgcgacgc cgtctcgagc attatgctgc aacagcagtt accattcatg 420  
ttcaaccc 428

<210> 9661

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-H7

<400> 9661

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gttgagaagg aagtaactag gaagacttat gcatcagttg ttaaaatccc gagggaggac 180  
acacagccta cccagctgc cagaccctcc aagcccaacc taaatataaa gatggttcaa 240  
aatacggaga aaaatgtgtc ctccaccatcg aaacctgctc atgctactgt taatgcccta 300  
ccgggcgata aggggtgttc taaaaacaaa tcacctgatg agccagggtg ctcaattttt 360  
gttaagaatt taccttttga agcaactgtt gaaatggctg aacaagagt 409

<210> 9662

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-H8

<400> 9662

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cgctgcttcg tcggcggcct cgcttgggcc acggacgacc actccctcca caacgccttc 180  
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cgcggttcg gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc 300  
atgaacggca aggagctgga cggccgcaac atcacgtca acgaggccca gtcccgcggc 360  
ggcgtggaa gcggcggcgg tgggtacggt ggt 393

<210> 9663  
<211> 229  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-042-Q1-K1-A1  
<400> 9663

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aactacgtcc gcgacgcgcg ccgcatggcg gccaccccg cgcacgtcaa ggagctcggc 180  
ggagcgtacg cgttcgtggt ggacatgccc gggctgagca cgggcgaca 229

<210> 9664  
<211> 412  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-042-Q1-K1-A10  
<400> 9664

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aacactattg gagcaaagag agcatcatgg agaatcattt gtcacatga gcaaaaggtc 180  
gcagctgata gtcagactgg tgtgatgata gatgcctata tgaagaaagt tgaagaggaa 240  
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agtacggntg aaaatatcgg attcttttat aagatgaaag gtgactacta ccgttacttg 360  
gctgaattta tcaactggaac tganaagaaa gctgcctctg atcagtcact ta 412

<210> 9665  
<211> 258  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-A12

<400> 9665

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cgcttcacat taaagtaatc tatttgaact gtagtgttaa tctatagaga taaaagcagt 180  
gtaaaaatag tagaaatcgt tatggattaa agacagtcga cccagctctt gctagttgaa 240  
aagaaccag ctcttgcc 258

<210> 9666  
<211> 410  
<212> DNA  
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<223> unsure at all n locations  
<223> Clone ID: LIB3059-042-Q1-K1-A2

<400> 9666

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tgatcaacaa aaccaaacca atccaaacca aatcatcttc ccaaagagtt gaggaactgc 180  
aatgatcaa ctctgagacc ttaaaggcca gaattatcaa ctctgagact ttgaaagcaa 240  
gaatggggca actgttggtt accacggaca tggatgttaa agtagaacc agttgacttt 300  
gcaatgtaca catttcttgt atcggctctt catttacgtc tgtattatcg cttttatgat 360  
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<210> 9667  
<211> 381  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-042-Q1-K1-A3

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ctcctatagc ttcccttctt ccccatatcc tctcatcagc ggtgtcttca gtatgtgaaa 180  
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cacccttggt cctccaacaa ccgtcatccc tattacagca gttacctttg gtgcatttgt 300  
tggcacanaa catcagggca caacaactac aacaacttgt gctagcaaac cttgctgcct 360  
actctcagca acagcagttt c 381

<210> 9668  
<211> 415  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-G8

<400> 9668

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cgcgctcgtg atggcagcag ccccgccgcg gtcgtcgtcc acgtccgggt cgccggccgc 180  
cggcggggccg cggtagagga tcgtcgacac gacgctgacg aacgtgttcg tgggocagat 240  
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ggaggccgac ctcatcacgg accgcttcac cggccgctgc aagggttagc gattcgagac 360  
gttcccggag ccggacgcgg tgcagcacgc ggtgcaagac ctgaacccga cgatc 415

<210> 9669  
<211> 288  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-F2

<400> 9669

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 attgattaaa atattaaaat atccaaactt taatcaaatt gcataataat ccaattttca 240  
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<210> 9670  
 <211> 407  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 agccacaccc atgcccgTgc caacagccgc atccaagccc gtgccagctg caaggaacct 360  
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<210> 9671  
 <211> 400  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-F4

<400> 9671

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 agtcattggt acaaaccatc agggcacaac agctgcagca actcgtgcta cctctgatca 180  
 accaagtagc tctggcaaac ctttctccct actctcagca acaacaattt cttccattca 240  
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agctagctac tgcctactct caacaacaac aactttcttc atttaaccaa ttggccgcac 360  
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<210> 9672  
<211> 396  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-F5

<400> 9672

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gtgttcatca atcgtctggc cacaatgaag tgaaatttca gtgcaaatta ataaagcact 180  
tttgtggctac tacaaggatg accgcgttct agatggaaca atcgatgctt tggaaagctt 240  
aataatgttt tatgtttgtg aataattccg tgtgttttcg ggtatgttgt gtaatactca 300  
atgtcaaatc ctatgcttaa tcgatgttgt ggtccatcct gttatcagca tggccaatta 360  
tatatggatg accgtcactg ctcagtcttt actcct 396

<210> 9673  
<211> 61  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-F6

<400> 9673

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g 61

<210> 9674  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-F7

<400> 9674

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gaagctcacc cattgagaat tgttccagta aatgataaca aaggcattgg aacaccggtc 180  
cgacaattcg ggagaaaaca gggaaagcct gagtaacctt ggatatagag cagtggattt 240  
ttgaatccgc cgtctgattc tgacctccct gttgatgtgt tctgacacga gggaactttc 300  
tgctgaagc agtaagggat agaagtcacg gcgatagatt gtttagagca aaaatcatag 360  
gtagaggatg atgttatatg cggggcagtg acctccgtga ggtcaagagc cccatagaag 420  
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<210> 9675

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-F8

<400> 9675

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agctaggatt ttgttgacat caacatctga agtttatggt gatccacttg agcatcctca 180  
aaccgaggcc tactggggca atgttaacct aattggagtc aggagtgttt atgatgaggg 240  
taagcgtgta gcagagacgc tgatgttcga ctatcacagg cagcatggca ttgaaatccg 300  
aattgccagg attttcaaca cctatgggcc aaggatgaac attgacgatg gccgtgttgt 360  
tagcaacttc attgctcaag ctgtgcgtgg cgaaccctt actgtccaga agccaggaac 420  
acag 424

<210> 9676

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-041-Q1-K1-F9

<400> 9676

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atccaaccca cttgcttttg caaacgtagc tgcataccaa caacaacaac agttgcaaca 180  
gtttctacca gcgctcagtc aactagccat ggtgaaccct atcgccctacc tacaacagca 240  
acaacttctt tcatctagcc cgctcgctat gggcaatgca cctacatacc tgcaacaaca 300  
gttggttcaa caacagttgc ttgaacaaat tggaccaact cttactcaac tagcttgggc 360  
aaaccctgct gnctacttgc acaactactt tcattcacnc aactgactgt gtcgaactct 420  
gctgcgtacc tacaacagcg acaacagtta c 451

<210> 9677

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-G11

<400> 9677

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tgctcacaag cttctatacc tacccttatt ccaccatacc ttccatcaat gatagcttca 180  
gtatgtgaaa acccagctct tcagccctat atgctccaac atgcaatcat agcaggcaac 240  
atacctttat cacccttgat gtcacaacaa tcgccagccc tatctatggg gcactcatag 300  
ctacaaacca tcagggcaca gcatctgcag caactcatgc tacctgtgat caaccaagta 360  
gctgtggcaa acctattatg ctactctgag caacaacaaa ttcttccatt taaacaac 418

<210> 9678

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-G2

<400> 9678

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cggaacgag ggctccaacta gcttctgggt ctccctgctg gtggagtctg aggacggcga 120  
cggcgacatc ggatccatgc agctcaaaca ggccaactcg gcgcagtggc gagacatgca 180

gcacgtctgg ggggccacgt ggagcctcac cccggggccc ctcgtcgggc ccttctccgt 240  
 gcggctgacg accctgtcgg gcaagcagac gctcacggcc caggacgtca tccccaaaga 300  
 ctggggcccc aaagccacct acacctcccc cctcaacttc gcgtagaggc cttctgcctt 360  
 ggcccgccgc gtatttatcg ttctgtgcag tttgatgtcg cgtgaagggg ataagct 417

<210> 9679  
 <211> 414  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-041-Q1-K1-G4  
 <400> 9679

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 gttcattatt ccacaatgct cacttgcctc aagttccatt attacacagt tcctcccacc 180  
 agttacttca atgggcttcg aacaccagc tgtgcaagcc tataggctac aacaagcaat 240  
 tgcggcgagc gtcttacaac aaccaatttc ccagttgcaa caacaatcct tggcacatct 300  
 aacaatacaa accatcgcaa cgcaacagca acaacaattc ctaccagcac tgagccacct 360  
 agccatggtg aaccctgccg cctacttgca acagcagttg cttgcatcaa accc 414

<210> 9680  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-041-Q1-K1-G5  
 <400> 9680

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 acccaacaaa aaccctcgct cgctcactt gttcgtcac ctcggtgcgg cgcgtcgttc 120  
 ggacacggag atacagcggc gattccggcg atggagtacg tgaacccct caccggcttc 180  
 cgcgtcgacg gccgccgcc caacgagatg cggcaactca agggcgaggt cggcgtcgtt 240  
 gcgcgcgcag acgggtcggc gctgttcgag atgggcaaca ccagagtcac cgccgccgtc 300  
 tacggccccg gagaggttca gaacaaaggt cagcaagtaa acagcaagga ggctttggtt 360

cgttgtgagt acaggatggc agagtttagt acaggagatc ggaggagaaa accgaagggt 420  
gacaggcgat caa 433

<210> 9681  
<211> 406  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-041-Q1-K1-G6  
  
<400> 9681

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tggagctcat caagtccagg gcgaccgtgt gcgcgctcct cctggcgctg ctctgctct 120  
cacactacga cggcgggacg acgacgacga tgggtggcgga ggcccgggtg tgcattgggca 180  
agagccagca ccactcgttc ccctgcatct ccgaccgcct ctgcagcaac gaggcgctca 240  
aggaggacgg cgggtggacc gccggctact gccacctccg ctactgcagg tgccagaagg 300  
cgtgctaagc aaagctcttc aaacaccctt ggcttgccag aactgaactc tagtagtact 360  
aagtaacacc cttggctagc tgtgcacaac ctacgtaccg tgcattg 406

<210> 9682  
<211> 344  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-041-Q1-K1-G7  
  
<400> 9682

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
ataaaaaaaaa aaaaaaatTTT aaaatatatt tttttttttt ggttttaaaaa aaaaaataat 180  
ttgggcacgt tttaatgttt taaattttac tttcatttta tttcaattgt atatttttta 240  
tttagtgtaa cttaatttaa ttttattggc agtattttta aaactccggt actggaaaaa 300  
cctttggttt acctaattta ttctcttttag agaaaatccc tttt 344

<210> 9683  
<211> 417  
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-041-Q1-K1-F12

<400> 9683

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gaccaacaag caacatagaa agtggaatcc agtagcaaca atagagcaac aatggcgacc 120

aagatatttt cctccttat gtccttgct ctttctgcat gtgttgctaa cgcgacaatt 180

ttcctcaat gtcacaagc tcctatagct tccattcttc cccatacct tgcataatg 240

atagcttcag tatgtgaaaa ccagctctt caacctata agctccaaca agcaatcgca 300

gcacgcaaca tacctttatc accctcgatt caacaatcgt cagccctatc tttggtgcag 360

tcattggtac anaccatcag ggcacagcag ctgcagcaac tcgtgctacc tgtgac 417

<210> 9684

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-D8

<400> 9684

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ctcgctggg ccacggacga cactccctc cacaacgct tcagcaccta cggcgaggtc 180

ctcgagtcca agatcactc cgatcgggag acgcagaggt cccgcggctt cggcttcgtc 240

accttctcca cggaggaggc gatgcggaac gccatcgagg gcatgaacgg caaggagctg 300

gacggccgca acatcacct caacgaggcc cagtcgccg gcggccgtgg aggcggcggc 360

ggtgggtacg gtggtggccg tggaagcggc ggctacggcg gt 402

<210> 9685

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-D9

<400> 9685

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tcctgtgcat ctcccaccgc cgggtccacct gccgccgccg gtccacctgc caccgccggt 180  
ccatgtgccg ccgccgggtc atctgccgcc gccacctgc cactacccta ctcaaccgcc 240  
ccggcctcag cctcatcccc agccacaccc atgcccggtc caacagccgc atccaagccc 300  
gtgccagctg cagggaacct gcggcggttg cagcaccgcc atcctggggc agtgcgctga 360  
gttcctgagg catcagtga gccga 386

<210> 9686  
<211> 416  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-041-Q1-K1-E1  
<400> 9686

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gggttcaaca attaaaccag tagttgcagc gaaccttgat gcttaccttc agcaacaaca 120  
atttcttcca ttcaatcaac tagctggngt gaacctgct gcttacttgc aggcacaaca 180  
gctactacca ttcaaccaac ttgtcaggag cctgctgcc ttcttactgc agcaacagtt 240  
gttgccattc catctacaag ttgtggcaaa cattgctgct ttcttgcaac aacaacaatt 300  
gctgccattt taccacacag ttgtgggaaa cattaacgcc ttcttgcaac agcaacagtt 360  
gctgccattc taccacaag atgtggcaaa caatgtcgcc ttcttacaac aacaac 416

<210> 9687  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-041-Q1-K1-E4  
<400> 9687

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cagttataaa gcccacaagc aatgtcatcg gtccaagtat gccacctgtt gctgtatcca 120

actgtgtggt gccctctgta cagccgaaga agaagagcag ctcagcagca acccggaag 180  
atctggaggt gaagaagagg cgagtccttg aggctggagc agcgcagggc gaagtaaaaa 240  
tctgccaaagt gtgcaatggt gtagtgaaca gccaaaaagt gtacgagttc catattgcgg 300  
ggcagaagca ccaggccttg gtacgtaagc agcaaccgct acgttttgtc acatgatgca 360  
gagccatttt gtcgctcgtc ttctgtctgg cctcatgctt gtccggaagt tcctctggaa 420  
cgagaactca caacatt 437

<210> 9688

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-E5

<400> 9688

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ggctgccagc gccagcgcgc ggacctcctg cgtgccgggg tgggccatcc cgcacaaccc 180  
gctcccagc tgccgctggt acgtgaccag ccggacctgc ggcatcgggc cgcgcctccc 240  
gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300  
gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccgggcccgg acgcgcagct 360  
ggagggccgc ctagaggacc tgccgggctg gccgc 395

<210> 9689

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-E6

<400> 9689

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caacgaggcg aggcgagggg agggaaaaca agtgagttag agagagagag agaggagga 120  
aatgctgcg ccacgccgcc cgcgcctcg tttccgcgc cgtcgtccg cccaccgcgc 180  
gccgggctgc gccacggcg gaggtgcccg cggaggccgt cgaggactcc acgttcgtcg 240

aggcctggaa aaaggctgcc cccaacatcg agccccagc gacgcccctc tccctcatgc 300  
agccgcgccc gccacgcca gctaccatcc ctaccaagct caccgtcaac ttcgtcctcc 360  
cctacaagtc cgagatcgcc aacaaggagg ttgacatggc aattgtacca gctacaactg 420  
gtcaaatggg tgt 433

<210> 9690  
<211> 408  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-041-Q1-K1-E8  
<400> 9690

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acaaatcggc catcgaagag gagctgcccc agggctcatgc tgagacctca aatgttttgc 120  
aagaggcctt tgatgatgac atagacgatt ggttcgagga ggctgatctt gctggccacc 180  
caactatcca cataggtgac gaggaagacg tgtcttttag tgacttggaa gaggatgacg 240  
tgaaatgatt tatagttgca attgcaatct gcaaaggag aaatcgacct gtgtattgga 300  
aactggacac ctctgctgta aaagaaaatg gaggtgaaag ttgttcgtag acacctctgc 360  
tgtgcaagaa aatggagagg tgaaagtttt tcgtgaatgg gaatgggt 408

<210> 9691  
<211> 390  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-041-Q1-K1-E9  
<400> 9691

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tctccctgga tgggttgacg aatgctggga agacattgct ggtcaatgct gttgctacag 120  
gtggctacag tgaggacatg attccaaccg taggcttcaa tatgcggaaa atcaccaagg 180  
ggaatgtcac aattaaactt tgggatcttg gtgggcaacg aagattccgc actatgtggg 240  
agcgctactg ccgtggagtt tctgctattc tatatgctgt ggacgctgct taccgagata 300  
gcatcccaat agcgaaaagt gaattgcttg gtctgctgac aaaacaatct ttaactggga 360

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390

<210> 9692

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-F1

<400> 9692

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gttcccgtcg ctgtcgccgg agctccgcga cgcgctcgcc aagggtggccg tgttcgtgct 180

cgtccagggg ctggtctacc tcctcctccg cagctcctcc gacgtcttct ccaaggacgg 240

ccggctcagg tccctcagct tccgccccat gcgctccatg agcgtcaggg gcgtgctggc 300

gccgctctcc gacgtccccg tcggcaccca acaacgccct ttccatcggt gtgcgcccg 360

cgcgacgtcg tcgcaccgca aagctgcccc cgaggattga aatggccgcc acttctgggc 420

agcttgcagt tgcag 435

<210> 9693

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-F10

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agagcagagc ctggttgctg aggaggggag atggcaggca tgaccgatat gccgatgagg 180

ccggcgcggc cgggcccgcc gatgcagcac cggggccctc cgccgatggc gcgcctccgc 240

cccgaaccaa tcgaccgca gaagacctgc cctctgctgc tcagggtttt cacaagggtt 300

gctggtcacc accaaaatga agagttttct gtgagaggga aagaaccaa ggatgaagtt 360

cagatttaca catggaagga tgccactctc cgtgagctta ctgatcttgt gaa 413

<210> 9694



<211> 388  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-041-Q1-K1-F11  
  
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 aaccctagcc gagatccccct cctgtgttgg cactgtctc cttcaccagg cgctcctccc 240  
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 <223> Clone ID: LIB3059-041-Q1-K1-D6  
  
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 ggacaaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc ttgctgccta 360  
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<210> 9696  
 <211> 118  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-041-Q1-K1-C1

<400> 9696

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<210> 9697

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-C11

<400> 9697

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acgcgggtcg tcaagacccc tgggtggcaag ctctgtgtacc agtacaccaa gaagagagcc 180  
agcggggcca agtgtcccgt gaccgggaag aagatccagg gcattcccca tctgaggcca 240  
gctgagtaca aaagggtccag gttgtctagg aaccgcagaa ctgtgaaccg tccctatggg 300  
ggagtactat ctggaactgc agttagagaa aggatcatcc gtgcttttct ggttgaagag 360  
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<210> 9698

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-C12

<400> 9698

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gcacccgctc ctcaaccgcg cccacaccga ctccccgcca cccacccccca cgggccgcgcg 180  
ccgcccgcgc cgtctcccgt ccccgcaccc cgcgcgcgcg acgtcacctg cgctcctcgc 240  
gggcatcctc tcccacctcg ctgaaatcgg cggctccttc cgcggcgggt tactccgctc 300  
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<210> 9699

<211> 402  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-041-Q1-K1-C2  
  
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<210> 9700  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-041-Q1-K1-C4  
  
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 gttcggatcc tgcggcgtcg gcagcgtcgg cagcccgttc ctggggccagt gcgtcgagtt 300  
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<210> 9701  
 <211> 425  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-041-Q1-K1-C5

<400> 9701

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tcaccccagc caaagctgac gcctgatcgt cacgctatta ttcactcaca tgtgatgctg 180

cggctgcgac tcctaaacct taaatctaga aatagctggg gattggggtt gcattgcac 240

gtgttcttgc cggcttagca agtgactata agaataatgg aataaacgat gaccagtggt 300

gtgtatgatt tccgttctga agaacaacac atcccttgca ggattgttgt tcagtagatt 360

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ctgac 425

<210> 9702

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-C6

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gtacgaggaa gagatgaagt cccaggagga aatttttcat ggtctaattg aggatattca 180

caagggcaca gaggataaag aaaagcagtt tgagaagttg ttgcaggaag agcgctcaaa 240

ggccagacgc tttgatgttg attctggaac tatgaaagat cgtcagctaa ggaaggaata 300

tgtgcagaag ttcattgatt gccaaagtaa ggatgtggca gagtttgaag ttgagcgaga 360

tgagctgac aaagtccacg aggacaagaa gttgaagctc aagaaggata catggatctg 420

gaac 424

<210> 9703

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-D11

<400> 9703

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 tatagctcgc tttctttcat cattcctctt accagctgag tattcaagat ttcaaaaccc 180  
 aatatctcaa ccctacaaga tgcaatcggc gatcatcaca ggca 224

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<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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 ggtgcccggc tcccctcggc atccaccgac gccggccgac tcactatctc cctccccccg 180  
 ttgatgcccg acatcaatgg cggagcacca tcctgatctc atcatatgcc ggaagcagcc 240  
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 gtgcaattat ggttcgttcc agggaagggtg tgtgatatgt ggaggagtgc gcatctcgga 360  
 cgcttactac tacaagaagt atggttctaa gaagagatga tcgagatgat ttgngctgtg 420  
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<210> 9705

<211> 418

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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 atcttgccaa gagaagagca gtacgagttc gacctncaac gggagaagga ggccaaggag 180  
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aaacgtaaag gtggccaatt taaggctggc aagaaaaagg tgaagacgaa acttttcagcc 300  
 ttagcaaaaag ccaaagccgc gcaagccatg gaggtcgaca agtgactgcg gagcacaagc 360  
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<210> 9706

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-D5

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 acacctagct gtgcaagcct acaggctaca acaagcgctt gcggcgagcg tcttacaaca 240  
 accaattaac caattgcaac aacaatcctt ggcacatcta accatacaaa ccatcgcaac 300  
 acaacagcaa caacagttcc taccagcact gagccaacta gatgtgggtga accctgtcgc 360  
 ctacttgcaa cagcaggtgc ttgcatccaa cccacttgct ctggcaaacy taactgcata 420  
 ccaac 425

<210> 9707

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-B9

<400> 9707

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 gctcacaagc tcctatagct tccctttctc ccccatacct ctcaccagcg gtgtcttcaa 180  
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 tccatttggt ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc 360

ttgctgcata ctctcagcaa catcagtttc ttccattcaa ccaactggct gcattgaac 419

<210> 9708

<211> 431

<212> DNA

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<223> Clone ID: LIB3059-041-Q1-K1-A4

<400> 9708

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acttctgttt ggcacctgaa ctgcttatca aaaactttat gtataccagt tacattccac 180

ttttaacctt catattagta ttaccatatt ataactgtct tttcagtatt tagtacttac 240

tattcatggg gacttgcacc tttctagtta catggagtga agatatgctg gctgatatgc 300

ggccaacatg cacgtagctt actggtgaag ttgatataat ctgtgctggt tgcggtgctg 360

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<211> 418

<212> DNA

<213> Zea mays

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<400> 9709

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atgtccgtgc atatggaacg gataaggagc atactctgag ggtaccagaa gattccttct 180

acaaacagat ggctgctgaa ttcacaaaat atcagattgc agtggacata ttttctttca 240

gcgataagta ctgagatata gcgtcttttag gatctttggc gaagtatact ggtggtcagg 300

tgtaccacta tgcatcattc cagacaccta cacatgggtga caaacttaaa cttgagctta 360

gtagggacct tacacgagag actgcatggg aatctgttat gcgtatcaga tgtggaaa 418

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<211> 407  
 <212> DNA  
 <213> Zea mays  
  
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 <400> 9710  
  
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 ttagtttcga aaaaatctga aaaaaaattc tggtcgaggg gaggaggcga tgtcggcgca 180  
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 cgtctcggac tcgcagctgt acgaactctt cagccaggcg gggcaagtgg tgtcgggtgcg 360  
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<210> 9711  
 <211> 419  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 tgntcggccg ccatcgcgct ggcgctcatg gcggccgggt tcgtcacctc cggcggcctc 360  
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<210> 9712  
 <211> 280  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-041-Q1-K1-A9



<400> 9712

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tgcacggccg cgtcatcgcc agctcgtatg ccatctccat ggaagaagct gcagagctca 240  
agaacggtag gaagcatgag ctggctgtgc ttactcctgc 280

<210> 9713

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-B1

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tgacactgtc aaagaaccct ctggatacat catctccagg ataccagcca cctatcccag 360  
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<210> 9714

<211> 397

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-041-Q1-K1-B10

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tcctattagt cctcgaattg ggctttcctc tgctgcgggg ttctgggtctc gtctggggttt 180  
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cgcgtcgttg ggagattttt tctgtgcttt ctcttttctt agctgagaaa tttggtgcta 360  
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<210> 9715

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-B11

<400> 9715

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atgttggcct tatcaggact acaacaagga accgtgtctt tggtgccctc aagggagcat 360  
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<210> 9716

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-B12

<400> 9716

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tagagacact tcacacaaag cccatttttc ttggaagcaa agcaaaaaga aggctagaac 360  
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<210> 9717

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-B2

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agacgttcaa gaaaccaagg cgtccttatg agaaggagcg tcttgatgct gaactgaagc 180  
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tctttgaggg tgaggcgctt cttgcgcgca tgaaccgcta tgggctgctt gctgagggtc 360  
agaacaagct tgattatggt cttgcccctca ccgctgagaa cttcctcgca aggcgggcttc 420  
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<210> 9718

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-B3

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taattataat tcaaaaaata ttaaataataa gttaaattatt aaacttttta aaatttcatt 240  
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<210> 9719

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<211> 396

<212> DNA

<213> Zea mays

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<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<210> 9722

<211> 418

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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gtgccaaaac tagttccaca cttgcgggccg ggcgaaagaa cccgtggcaa tagatgaagt 180  
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ttgtcgcaac cggccgggtg ctgatgaaat ttttgataga ccagaggagt ttatcaatcc 360  
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<210> 9723

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-B8

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 <211> 439  
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 <223> Clone ID: LIB3059-041-Q1-K1-A3  
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 <213> Zea mays  
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 atgatggagg tgatggcagc tggaaatctc agagaaagaa aagagagaaa gaagatgatg 240  
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<210> 9726  
 <211> 471  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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aagaatgccc gtgaggcagt gaagcacttt ggcaaggctc ctggagtgcc gnacagccac 420
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-040-Q1-K1-H6  
  
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 gcggtgtctt cagtatgtga aaaccaatt cttcaaccct acaggatcca acatgcaatc 240  
 gcagcatgca tcttaccttt atcacccttg ttccttcaac aaccgtcagc cctattacag 300  
 cagttacctt tgggtgcatth gttgacacaa aacatcaatg cacaacaact acaacaactt 360  
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<210> 9729  
 <211> 354  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-041-Q1-K1-A10  
  
 <400> 9729

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 cctcttataa ctgcaacaat tgctgccatt caaccaactt gctttgacaa acccagcagc 180  
 gttctaccaa caacccatca ttggtggtgc cctcttttag atttcttatg agttatagtt 240  
 caataataaa gttggttgtc tgatgtttgt ggcttcccag aaataagaac gtacatctct 300  
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<210> 9730  
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 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3059-041-Q1-K1-A12

<400> 9730

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cgtcagccct attacagcag ttacctttgg tgcatttggt ggcacaaaac atcaaggcac 180  
aacaactaca acaacttggt ctaggaaacc ttgctgccta ctctcagcaa cagcagtttc 240  
ttccattcaa ccaactggct gcattgaact ctgctgctta tttgcaaca caactaccat 300  
tcagtcagct agctgctgcc taccctcagc aatttcttcc attcaaccaa ctggcagcat 360  
tgaactctgc tgcttattta caacagcaac agctaccacc attcagccag ctagctgatg 420  
tgaaccctg 429

<210> 9731

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-A2

<400> 9731

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cagagattac aggggcatat gaggaagca tgaaatgtat acgtgggtat ggaacaaggt 180  
tggtctggaa ctcggtgaca tccacattga tagcaccatc aaacctcagg gaggtggtta 240  
gagatgatat gatctgtgag atcagcctgt tcaagttggt gtaggttggc ctttcgatgt 300  
caagggacct cctgcatatg tcatagatag cctcgttgtc caggaggact gcaacatcag 360  
tgtgctcaag caaggagtgg gtggagagga cactg 395

<210> 9732

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-F4

<400> 9732

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tcaaaaccca attttctcaac cctacactat ccaacatttc aatcactatc attcatctta 120  
ccattatcac ccttattcct cctacatcct tctatcctat tacatcaatt acctttcttc 180  
catttcattc cacaaaacat tattacacat caactacaac aacattttct aactaaacct 240  
ttcttcatac tatcatcaac ttcattttca ttcattctac c 281

<210> 9733  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-F5

<400> 9733

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tctgggatgg tgattttcgt ctaaagtggg atcccatgct tgcatactcc aaatctttgg 180  
atgagttccc tcagaatgga gcaacaattg tccactggat aaaaaagtgc ccattctttt 240  
gcagtgaccg tgaatacatc tttggaggac gcatatggga atctgggaag acttactatt 300  
gtgttacaaa ggggtgtcca tatccatcat tgcccaagaa agaaaaacca aggcgtgtgg 360  
agttgtactt ctcaagttgg cgtattagag ctgttcaatc gcctaaacat gtgggtcagc 420  
aatctgcg 428

<210> 9734  
<211> 240  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-040-Q1-K1-F6

<400> 9734

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cctaataaag ttgttatatt aaacattttt cgcgccataa aacaccatac tacacattaa 120  
ctatctacat atttcttctt aaatcatata ttctcatcta aaaccactat cccatttttt 180  
catactcaaa atctaaaaat cattatccat tataatcaaa catcaattaa ccactttata 240

<210> 9735  
 <211> 437  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-040-Q1-K1-G3  
  
 <400> 9735

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ggcctggatc aaaatggaaa tctctcctga taaagtggga tgggtgctact agtacagcc 120
accagaatag agtatctcca tgggacatcg agggagtggg cagctcagtt ttagttactc 180
accgtctttc ctcttctggt tcgaagcgaa caaaactgtg ctccctcca agcgatttga 240
acacaccaat tctagatgga aatggtcgct cagactccgt ggaaactgaa cgtttccaca 300
gggtcttgca gggtaaaaa tgggtgccacc ctaatatcaa tgtgcctcat ggctttaatc 360
atcaaatagc cccaaaagtc aagggctcta atgcaaggag attctctgct gatgtgtgga 420
actgcaagat gaatgat 437
  
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<210> 9736  
 <211> 291  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-040-Q1-K1-G6  
  
 <400> 9736

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cccaacacct acaccttcta cattctttta ctaaaccatc caaaacaact acttccctaa 180
ctaccactct tactatacca tcttaacct catcatctaa cctctcctac tcataccata 240
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<210> 9737  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations

<223> Clone ID: LIB3059-040-Q1-K1-E12

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ctgtccgaga cctcggggag gcctgccctc tcggctctcg cgttaccgat cgaggcgtgg 180  
agagaaatgg cggcggcagc agcaacaaga gcaggagcgt ggggcgtggc gtggctcctg 240  
gcggccaccg tggcggcggc gctgctggcc tcggcgtcgg cgcagtcagg gtgcacgacc 300  
acgctgatca gcctgtaccc gtgcctcaac tacatcagcg gcaacgtgtc ggcgccgncg 360  
tcctcgtgct gctcgcagct cgccagcgtc gtgcagacca acccgagtg cctctgcgcc 420  
gcgc 424

<210> 9738

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-040-Q1-K1-E4

<400> 9738

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ggagaatgcc ttgcctcct acggcgagat cctcgactcc aaggatcatca ccgaccggga 180  
gacggggagg tctcgcggct tcggcttcgt taccttctcc tccgagaact ccatgctcga 240  
cgctatcgag aacatgaacg gcaaggagct cgacggccgt aacatcaccg ttaaccaggc 300  
ccagtcgccg ggcggtggcg gtggcgggcg tggctacggc ggcggtcgcg gcggcgggcg 360  
ctatggtggc gggcgccgtg actgcggtta tggcggcggt gg 402

<210> 9739

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-E8

<400> 9739

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 agttgtccga atggcaaacc tctgtgttgt tgggtgggcat tcagtaaagtg gtgtagctga 180  
 aattcacagt gaaattgtga aacaggatgt gttcaacagc ttctatgaga tgtggccaac 240  
 taaatttcag aataaaacaa atggagtgc tcccaggcgt tggatccggg tttgtaatcc 300  
 tgcattaagt gcattaattt caaagtggat tggttctgat gactgggtgc ttaatacaga 360  
 caaactggca gaactgaaga agtttgctga taatgaagat ctgcattcag agtggcgtgc 420  
 tgctaag 427

<210> 9740  
 <211> 52  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-040-Q1-K1-D10  
 <400> 9740

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<210> 9741  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-040-Q1-K1-D5  
 <400> 9741

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 ctatctgccg ccgcagcagc agccgcagcc atggcaatac cccactcaac caccgcagct 180  
 aagcccgtgc cagcagttcg gatcctgcgg cgtcggcagc gtcggcagcc cgttcctggg 240  
 ccagtgcgtc gagttcctga ggcaccagtg cagcccggcg gcgacgccct acggctcgcc 300  
 acagtgccag gcgctgcagc agcagtgctg ccaccagatc aggcaggtgg agccgctgca 360  
 ccggtaccag gcgacatacg gtgtggctct gcagtccttc ctgcagcagc agccgcaggg 420

cgagctcgc

429

<210> 9742  
<211> 315  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-040-Q1-K1-D7  
  
<400> 9742

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accaactgaa tttcacctct acttccaaca tctcatcctc ttaccaaacc ctacctcata 180  
tctctctact atacacaact gctcatatat gtgcctatac tcatcatcat cactcaacaa 240  
ttcatgggtc acatcacaac cacaatcttt catcttatca acgattcact cactaatata 300  
taagcatatt tattt 315

<210> 9743  
<211> 369  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-040-Q1-K1-A4  
  
<400> 9743

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tagccgcggc cgggaggagc gctacctcct ccccttcgac ccaccgtcg aggccacag 180  
ctactccatc ctctgggctc ccaccacat catcttctac gtcgacgaca cgccgatccg 240  
ggaggtgatc cggcaccggy acatggggcg cgacttcccg gcgaagccga tggcggtgta 300  
cgccaccatc tgggacggct ccgcgtgggc cacggacggg ggcaagtaca aggtcaacta 360  
caagtacgc 369

<210> 9744  
<211> 424  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-A5

<400> 9744

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tgcggcgcaa ccttccaggt ggaaggggct acgggtgctca cagcgctgca ttaggagatg 180  
aggtgtcttc ctccgtctcc aggcctggac tgggggcaac tgtacatggt gcctgggtgg 240  
gtaatgtaac ataacggcaa tggcatatgc agctgaccc tggctgcctg tatcatctcc 300  
tcccaccgt aaagagaagt tctttctgcc gccatcgcca tggtcagtca gagcttctct 360  
gctatagctg ctggatgtgt tgtgtgttgc gtctgtatcg tctctagttt gttcgactta 420  
cgtg 424

<210> 9745

<211> 167

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-A6

<400> 9745

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aaattaaaa aattaaaac acaaaaatac aacataatat aatcaaaata ttatatcacc 120  
ttaacttcaa taaactaaca catcatttta caacttcaa tactctt 167

<210> 9746

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-040-Q1-K1-A9

<400> 9746

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tttcccacc ttcgtgtgga agtaggcaat gcagcttttg agtcattgga tagaatgagg 180  
gatgaaagca agaaaaatac attaaagcta gttgacatgg aatgcagcta cttgacagta 240

gattttcttca ggaagcttcc ccaggatggt gagaggggtg gaaatccaag ccactctatt 300  
 tttgatagat ataatgactc ttatcttaga cgaattggac aaactgttct gtcatatgtt 360  
 aatatggtgt gttecgacctt gaggaactcc atcccanaat cta 403

<210> 9747

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-B12

<400> 9747

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 acgttaatta atcgcgtgat gcggaagac agccaagtcg accccaagcg tgggcttctt 180  
 cgcaaggcga tgctgatgga caaacctgaa gatggctcgc aagtgtcat cgactaacia 240  
 cactaaccta gtgttactca ggttctaact ttgtgctgtt gttgatggtg ttaagtgcg 300  
 gtgggctcgg ctttcttata agtctaagta acccttctat acttcttatt gaggatgac 360  
 ccttgagcta gcatatata ttcaaaacta tacttttgta atcactccga ttaactaatg 420  
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<210> 9748

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-B2

<400> 9748

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 cgccgggacc tctgcgtgc cgggggtgggc catccgcac aaccgctcc cgagctgccg 180  
 ctggtacgtg accagccgga cctgcggcat cgggcccgc ctcccgctggc cggagctgaa 240  
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<210> 9749  
 <211> 75  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-B3

<400> 9749

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cgggggtgggc catcc 75

<210> 9750  
 <211> 417  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-B5

<400> 9750

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caactccctg tttccctacg aacttctcga gatccttctg gcccatgcac aggttgtgga 120

agactttgca aaatttgaca ttctgatgaa actgaagaga ggcagcaagg aggagaagat 180

caaagcagag gtccataaga gcctggaagg ggcctttgtg ctaaaccagc atcagccggc 240

ggagcatgat gagtcgagca gccagtgaac tgacgtaact gtgtgagctg tagtagtaac 300

gtacttcgtg ttacgtagaa gaataaggag aaaacgacca atccggtttt atctggatgt 360

catgtatggt cgacggctctg tgctggcttg gcttccgaag acggtacctg ctgtcgc 417

<210> 9751  
 <211> 268  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-040-Q1-K1-C1

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nctnttcaat ccaacattca acaacaatct ctatctacta acttctttaca acaaccaatt 180  
 acccaatttc aacaacaatc cttaccacat ctaacaatac aatccatcac aactcaacat 240  
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<210> 9752

<211> 525

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-039-Q1-K1-G5

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 ggctccatca tgatnnctct atgagaagtt actacaatca gtaacaatgt caataccttc 180  
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 gtcacgaaga atatgcttca acaacatagc agtctcaaag accattcaag aagaatgctg 360  
 attccgcaaa agccctttga cattgaatca ggatactttt gctgaagaag acccctgatg 420  
 aagtaccagc acccaaggat aagacaggat gaaagaggaa aagcgaagat ggaggaagaa 480  
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<210> 9753

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-G7

<400> 9753

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 caacttgtgc tagcaaacct tgctgcctac tctcagcaac agcagtttct tccattcaac 240  
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ctacctgttg cctaccccca gcaatttctt ccattcaacc aactggcagc attgaactct 360  
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 gctaccttc 429

<210> 9754  
 <211> 411  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-039-Q1-K1-G8  
 <400> 9754

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 ctgcttattt gcagcagcaa atactactac catttagcca gctagctgca gcaaaccgtg 180  
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 cggccttcta ccaacaacac atcattgggtg gtgccctctt ttagattgct tattagttgt 360  
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<210> 9755  
 <211> 386  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-039-Q1-K1-H1  
 <400> 9755

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<210> 9756  
 <211> 118  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-H10  
  
 <400> 9756

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<210> 9757  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-H11  
  
 <400> 9757

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 tgataaatgc atgcataacc atgtattcgg cagaggctcg gaaggaaagc agaggagctc 240  
 atgctcgtga ggatttcacg acaagagatg acgagaagtg gatgaagcac tcaactggagt 300  
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<210> 9758  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-H12  
  
 <400> 9758

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 gtcccgccga ggccgccagc ggaggacaag aagccctgca acaggaccag catcaacagg 120  
 ggctccctcg tgaagcggat gcccttcttc cgccgcagca ggtcgcgtcc tcgtcaagg 180

gcggcgtcat ccaaagatgg gtcctcgtc gtcggtgacg ggaaagagag cgacggcgac 240  
 agcgcgttgg cggatccagc gccgacgacg ccgacgatgg gcctagtcca gatgaagcgg 300  
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<210> 9759  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-039-Q1-K1-H3  
 <400> 9759

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 gcatccgtgg atgcaggaac acgcggaccc acaagactcg tgcgggcagt gccacgagac 180  
 cggccttcaa cgggagggcg ccggctcgtg ctccctctac acgccgttgg cgtcgcggag 240  
 catggacgtg agctttgaca cgcgtggccc catcgcgtgg aggggtgggg gcgaggacga 300  
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<210> 9760  
 <211> 383  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-039-Q1-K1-H4  
 <400> 9760

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 acttcagcat gtctgcatc atcaactgta tttcgcatac ctcaagtacc tactcgtaag 180  
 tgctctccct cccctgaat ctggtctatt ctccatacaa tcgcaaatca cgcggtgcta 240  
 gcaagtaaga attgctcact gtctcacatg tttgatattc ttctgtacta tttcaacctt 300  
 tagttgcatt catatgctta agtctgattc ttcttctgta taatcctatc tttgacagta 360  
 ctagaaaatt attctcatga tat 383

<210> 9761  
 <211> 417  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-H5

<400> 9761

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 aagatattat ccctccttgc gcttcttgcg ctttttgca ggcgaacaaa tgcgttcatt 120  
 attccacaat gctcacttgc tccaagttcc attattacac agttcctccc accagttact 180  
 tcaatgggct tcgaacaccc agctgtgcaa gcctataggc tacaacaagc aattgcggcg 240  
 agcgtcttac aacaaccaat ttcccagttg caacaacaat ccttggcaca tctaacaata 300  
 caaaccatcg caacgcaaca gcaacaacaa ttcctaccag cactgagcca cctagccatg 360  
 gtgaaccctg ccgcctactt gcaacagcag ttgcttgcag caaaccact tgctctg 417

<210> 9762  
 <211> 407  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-H6

<400> 9762

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 agccctatct ttggtgcagt cattggtaca aaccatcagg gcacagcagc tgcagcaact 120  
 cgtgctacct gtgatcaacc aagtagctct ggcaaacctt tctccctact ctgagcaaca 180  
 acaatttctt ccattcaacc aactgtctac attgaaccgt gctgcttatt tgcagcaaca 240  
 actattacca ttcagccagc tagctactgc ctactctcag caacaacaac ttcttccatt 300  
 taaccaattg gccgcactga acccgcgtgc ttatttgcag cagcaaatac tactaccatt 360  
 tagccagcta gctgcagcaa gccgtgcttc cttcttgaca cagcaac 407

<210> 9763  
 <211> 408  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-H7

<400> 9763

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cggcgcgagc gaggagggcc aaggggaaga ggggaagcac cgcaccagga cccttggttcg 120  
ccgccgtcgc ctctgatctc cgcgagggtg tcaggattca atatgtcgac cagcacattc 180  
gctacttcct gcacgctgtt gggcaatgtt agaacaacgc aggccttcca gacagcgggtg 240  
aagagccctt cgtctctaag cttcttcagc caagttacga aggttccaag cctgaagacc 300  
tccaagaaac tggatgtcta cgccatggct gtatacaagg tgaagcttgt cgggcctgaa 360  
agtgaagagc acgagtttga tgctccagat gacgcctaca ttcttgac 408

<210> 9764

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-H9

<400> 9764

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tcgagctgct caagcatcac gagagagttc tgtatgtcga tatcgatc caccatgggtg 180  
atggagtgga ggaggctttc tacacaacag atagggttat gactgtctcg ttccacaagt 240  
ttggtgatta tttcccagga acaggggata tccgtgacat tgggcactca aaaggggaagt 300  
actactccct gaatgtccct ctagatgatg ggattgatga tgaaagctac cagtcccttt 360  
ttaagccaat catgggcaaa gttat 385

<210> 9765

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-A1

<400> 9765

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gctcaaggac ctgcagaagg atccttccac ctcttgcagc gcaagccctg ttgccgaaaa 180  
tatgttctac tggcaagcga cgattatggg gccatcagat agcccatacg ctgggtggcgt 240  
atTTTTggtc actattcact ttccaacgga ctaccattc aaaccaccga aggttgcatt 300  
caagacgaag gtttaccacc cgaatatcaa cagcaacggg agcatctgtc ttgatattctt 360  
gaaggagcaa tggagccctg cactgacagt ttcta 395

<210> 9766

<211> 218

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-039-Q1-K1-E7

<400> 9766

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ctcgtccctt tttttgtttt ttttttataa gaatgtcaaa agtcgctgcg taatgtgtaa 120  
cgtgaaacta tttgtgggca tcggaggaat cgtttactag tactatatng cagttggaac 180  
actatctcaa acgtcaggga agattatagt ctgtccca 218

<210> 9767

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-E9

<400> 9767

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gaatatgcta gtgcctcggg aagtgttgat tttgattctg tgctgtgtag aaactgtaag 120  
cgccatatag ccagccagtc tgctcatctt catgaggcat actgcatgag acacaatgta 180  
gcctgctcac atgatgggtg tggagttgtc cttcggaagg aagaagcagc agatcatgtg 240  
cactgcaaca agtgcggacg agcttaccag cagagagaaa tggaaaagca tatgaaagtc 300  
ttccatgaac cgttgcagtg cccctgtggg gtggtcctgg agaaggaaga tatggttcag 360  
caccagtcct tgacttgccc cttgcgatta attgtgtgcc gcttctgtgg tgacac 416



<210> 9768  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-F11  
  
 <400> 9768  
  
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 gctccgagtg ccattattcc acagttcctc cctccagtta cttcaatggg cttcgaacac 120  
 ccagctgtgc aagcctatag gctacaacaa gcgcttgagg cgagcgtctt agaacaacca 180  
 attgcccaat tacaacaaca atccttagca catctaacca tacaaccat cgcaacgcag 240  
 cagcaacaag cactgagcca cctagccgtg gtgaacccta tcgcctactt gcaacaacag 300  
 ctgcttgcac ccaaccact tgctttggca aacgtagctg cataccatca acaacaacag 360  
 ttgcaacagt ttctgccagc gctcagtcaa ctagccatgg tgaaccctat cgtctacc 418

<210> 9769  
 <211> 417  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-F12  
  
 <400> 9769  
  
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 cagccacccc gtggcgggag gctcccgacc tcaacggctc gggcgcggtt ccggctgctc 120  
 ggccatggcg gcacaagtgc gcggccccct gagcgggcca gcgcgcagtc ccgcggctct 180  
 ggcagtgcgg gcgctaacca ggcgcagcca gtgtgggttc gtcccggcgg gcgcatggta 240  
 ccggccatgg tgccccgttg aggcgcgtgc gcgcacatgg tattctcacg gaggcaacca 300  
 gacggctgaa cggatcatca tggtagagaa cactccatgc ataggagtgg gcagaaaggt 360  
 aaatctggtt gttgaaacaa attaacatac gatctttgaa aacctgttgc tgagtaa 417

<210> 9770  
 <211> 437  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-F2

<400> 9770

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tcagccagct acctgctgcc taccgccagc aatttcttcc attcaaccaa ctggcagcat 120  
tgaactctcc tgcttattta cagcagcaac aactactacc attcagccag ctagctggtg 180  
tgagccctgc taccttcttg atacaaccac agttgttgcc gttctaccag cacgctgcgc 240  
ctaacgctgg caccctctta caactgcaac aattgctgcc attcaaccaa cttgctttga 300  
caaaccagc agcgttctac caacaaccca tcattggtgg tgccctcttt tagatttctt 360  
atgagttata gttcaataat aaagtttttt gtctgatgtt tgtggcttcc cagaaataag 420  
aaagtacatt tctaaaa 437

<210> 9771

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-F3

<400> 9771

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cccatacatc tcctctagca tttcctggcc aaacctctgc aacaaattct gatgtccgag 120  
ttcacactaa agctgttact tttgaagacg acatatatgt agttagtctg tcaaagtctg 180  
ctaccttgct actggattct atacagtctg atcctgtgct caagaattct tcagaccccg 240  
ctctatctcg tgacagaaaag ataatatcaa gtggactaaa ggcttttaca ggatctatca 300  
ttgagcacga cgactatgtt tccaccattg aaccttctgt ggctagtctg ttggcaaaac 360  
ctggtactag tgcttcttca aggcccggtg caa 393

<210> 9772

<211> 102

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-F4

<400> 9772

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 tgggtgccct ggcgccactg tcaatggcca gatccagact tg 102

<210> 9773  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-F5

<400> 9773

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 ccttatgctc cttggtctct ctgcaagtgt tgctaccgca accatthttcc cacaatgctc 120  
 acaagctcct atagcttccc ttcttcccc atacctctca ccagctgtgt cttcagtgtg 180  
 tgaaaaccca attgttcaac cctacaggat ccaactggca atcgcaacac gcatgttacc 240  
 attatcacc ttgttctac aacaaccgtc agccctatta caagagttac cttaggtcca 300  
 tttggtggca caaacatca tggcacaaca actacaacaa cttgtgctag caaaccttgc 360  
 tgcatactct cagcaacatc agttttattcc attcaaccaa ctggctgcat tgaactctgc 420  
 t 421

<210> 9774  
 <211> 395  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-039-Q1-K1-F6

<400> 9774

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 tgtgtcgtcg tcaaggacta cggatgaagaa tctgagggcc ttaacatagt gcaggagtat 180  
 gtcaagtcgc actagatgtg tgacatgttt cagtatact cttgatttgg acctgggctt 240  
 aaaattatgc ttttgcattc ggggcttgcc taagagatta gaacatttta ctagaagagc 300  
 cgaagaggat atgtatgaac aatttggaca tctgaatttt ttttgtttat ggtgctgtcg 360  
 tctggttnta atgcaaatca tgaagagccg agttt 395

<210> 9775  
 <211> 420  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-F7  
  
 <400> 9775  
  
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 cgctgctgg ctgtacactt acgcggagta cctgaggcag tcgaaataca gcacgatggc 180  
 ggcgactcca tactactccg tgtgagggca gactaacgct atgtaccagg cgctgcggta 240  
 acagtgtctg catcagcaga tgaggatgat ggacgtacaa tacgtttcgc atcagctaga 300  
 gatgaagatt cagcttgagc gtgccgctga cgtcagcatc agcctgtact agccactggt 360  
 gatgcatcat cagcagcatc tgatggcagc tcatgtctctt aaccccatgg ccatgatgat 420

<210> 9776  
 <211> 294  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-G11  
  
 <400> 9776  
  
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 atgctccagc tgttagggtt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
 aaaaaaaaaa aaaaaaaaaa caaatataa aaaaaaaca aataaatttg caataaaaac 240  
 aacattataa aaataaata aaaaaaaaaa aggggcgccc tttttaaggg ttcc 294

<210> 9777  
 <211> 307  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-G2  
  
 <400> 9777

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 actcaaagtg cgggtggcaat cttgacagca gcacaatacc taccatcaat gtgcggcttg 180  
 taccactcat actaccaaaa taatccatgc accatcaatg acattagtcg tgtttgcaat 240  
 tgaagaattg tgtctaccta accgttatac ttctataacg gtgttaagca ataaagtacc 300  
 atacatt 307

<210> 9778

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-G3

<400> 9778

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 tagtgtacca acaatggcag ccaaaatatt ttgcttcctt atgctccttg gtctttctgc 120  
 aagtgttgct accgcaacca ttttcccaca atgctcacia gctcctatag cttcccttct 180  
 tccccatac ctctcaccag cgggtgtcttc aatgtgtgaa aaccaattg ttcaacccta 240  
 caggatccaa caggcaatcg caacaggcat cttaccatta tcacccttgt tcctccaaca 300  
 accgtcagcc ctattacagc agttaccttt ggtccatttg gtggcacaaa acatcagggc 360  
 acaacatctt caacaacttg tgctagcaaa ccttgctgca tactctcagc aacatcag 418

<210> 9779

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-E6

<400> 9779

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 tcttcccccg tacctctcac cagcgggtgc ttcggtatgt gaaaacccaa ttcttcaacc 180  
 ctataggatc caacaggcaa tcgcagctgg catcttacct ttatcaccct tgttcctcca 240

acaatcatca gccctattac agcagttacc tttggtgcat ttattggcac aaaacatcag 300  
ggcacaacaa ctacaacaac ttgtgctagc aaaccttgct gcctactctc agcaacagca 360  
gtttcttcca ttcaaccaac tagctgcatt gaactctgct gcttatttgc aacaacaact 420  
acca 424

<210> 9780  
<211> 243  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-D10

<400> 9780

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tctacaggat gcacaattac aaggccatga aggcccacga gctgggtctgc catgagtgtc 180  
gaagtggaag gaagtggacg tcgttgaaca ccgtgaaggc gagatacaca ttaggaccac 240  
cga 243

<210> 9781  
<211> 87  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-D3

<400> 9781

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tcgtagtgga agttgttaca ccagatg 87

<210> 9782  
<211> 405  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-D4

<400> 9782

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acacgataag ttgctatgca acatggaaat tctgcatac ctgctgatg tccctgacta 120  
cctaattgat ccgaaaacaa aagaagccaa caatgctgtc aagctttcca aggctgctat 180  
gcatatcgac aagccccaaa agcggaaaaa gcaagggttt aagggaagat caaggaaaag 240  
cagagaccct ctcaagacat tctctgctga aggcaaacta aggaaacgga agaaagaaag 300  
ggaaggagaa ccaaatagaa gaaagaagag taagagggcg gaagttgatt tttcaagcag 360  
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<210> 9783

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-D5

<400> 9783

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ttattacaca tgtacagcgt acatggattg atagaggagt cagactacac acattatcat 120  
gtacattctt accaataata tatgcatgat cataataaac ttttagtttt aatgaatcaa 180  
tataaacaac taatatcttc actcttaaaa ttaataacaa tcttcactat aattcttatt 240  
tatatatata actattttaa agcaaataat ttttttaaca attatattat aaatactttc 300  
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<210> 9784

<211> 376

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-039-Q1-K1-D6

<400> 9784

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ctcctagcaa ggatgcccc atgtttgtcg ttggtgtcaa cgagaaggag tacaagtctg 180  
acattaacat tgtctccaat gctagctgca caaccaactg ctttgcctct cttgctaaag 240

tcatcaatga caagttcggt atcggtgagg gtctgatgac cactgtccat gccatcactg 300  
ctacccagaa gactgttgat gggccctcat ctaaggactg ganggggtgga agggctgcta 360  
gtttcaacat cattcc 376

<210> 9785

<211> 138

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-D7

<400> 9785

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tggtagcaag ctgaaagatt actttgtatc gtactatattt aattatattt tgtggagata 120  
aagaaattat tatgagct 138

<210> 9786

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-039-Q1-K1-D8

<400> 9786

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tccaagttcc attattacac agttcctccc accagttact tcaatgggct tcgaacaccc 180  
agctgtgcaa gcctataggc tacaacaagc aattgcggcg agcgtcttac aacaaccaat 240  
ttcccagttg caacaacaat ccttggcaca tctaacaata caaaccatcg caacgcaaca 300  
gcaacaacaa ttctaccag cactgagcca cctagccatg gtgaaccctg ccgnctactt 360  
gcaacagcag ttgcttgcac caaaccact tgctctggca aacgtagttg caaaccagcc 420  
acaacaaca 429

<210> 9787

<211> 372

<212> DNA

<213> Zea mays



<223> Clone ID: LIB3059-039-Q1-K1-E10

<400> 9787

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aggccactgg tgaggatttc tctgttgagc cagctgatga gaggaggcct ttccgtgctc 180  
tcttgatgt tggccttatt aggactacga ctgggaaccg tgtctttggt gccctcaagg 240  
gagctttgga tgggtggcctg gatattcctc acagcgagaa gaggtttgct ggtttcaaga 300  
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ctgactacat ga 372

<210> 9788

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-E12

<400> 9788

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cgcggaagag ggaatgcgag agcgagtgcc gcgagcggca ccagcaagct gacgcgggcg 120  
aggacggcga cagcggcgctg gacgcctacg tctcccgtc cgggaggggc gagtgccggc 180  
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<210> 9789

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-E2

<400> 9789

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tgctgtaatt tctccgaacc aagtaattgg tagtgcttgt actccggaac agaaggctgc 120  
catcctaaat caatgcgaag agtacatcaa gcctggatac ccccttatac tgccatcgta 180  
cgccagtgtg tggtgcgaca aggtgagaga tgtgccaaat agggacatga actgcatcgt 240

cgatctgctc acgcctccaa aaaaagcgaa acacggtgtc gacaagataa aacgtctgaa 300  
agatctctgc gacaacttcg ctcatcatca gacagacagc aactgtcatt gctaattggaa 360  
gttcgaggca agatatatgg tctagtaaataa aaagtcgtcg atcaaagcat gacaactgtc 420  
aaatgtatct ttg 433

<210> 9790

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-E3

<400> 9790

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aacgttgaca cgggcgacag cgccgacgag gccgtcgccg aagctgctgc tgaggagaaa 120  
gagaaggagg aagtccagcc gaagcccgtc gacggttccg gctccggctc cggctccggc 180  
ggcggcgacg ccaagccggt gtgctacgag acgagccgtc gttccgacac ctgagaggcg 240  
gctggcgacg tgcgcgtcct tgggagcacc cagacgggtg acgtggactc gctggaccgg 300  
gagtggaaga ccaagccgta ctgtcggaag cagcacaact tcgcgctcgc ccacgtcaag 360  
gagtgggtccc tga 373

<210> 9791

<211> 276

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-C9

<400> 9791

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acaatctctc acttctatcg tcttacaaca accaattttc catttacaac aacaatccta 180  
tatacatcta accatacaaa ccatagtatc taactatctt aacaactcat tcaacaaaac 240  
atgataaacc ctataccta ctttcaacaa cagatt 276

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 <212> DNA  
 <213> Zea mays  
  
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 tctgaaggcc aagctgaaga tgtcatatgc tgttcgctg tcatgtcccg aacatatttg 180  
 tgtttttttg ggaaagaaac atacaatttt ttgttctcat tctagtatcg tctacctatg 240  
 tcaaactaca atatgatagg acccttgcta aataattgtt tcgtttgctg gtattttctca 300  
 tctttgatgc taggcatgtt ggaaagttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360  
 aataaaaata aaa 373

<210> 9793  
 <211> 264  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-B4  
  
 <400> 9793  
  
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 ctgagtttga ggacaagctc taaaattttt ggctgttggg gatactgttt catctgccgg 180  
 tttaatcatc aattcgtcta ctgtaatagc agcgacttca atattttatt ttgttttagt 240  
 tgtcaaatgc acctgttttt gaac 264

<210> 9794  
 <211> 396  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-B5  
  
 <400> 9794  
  
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gtctagcagc agccaccgcc gcctcatcct cgcagccgcc gtccctgctct ccgtgctcgc 120  
ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc cgcacaaccc 180  
gctcccgagc tgccgctggt acgtgaccag ccggacctgc ggcacccggc cgcgcctccc 240  
gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccg cgtactgccg 300  
gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccgggcccgg acgcgcagct 360  
ggagggccgt ctagaggacc tgccgggctg cccgcg 396

<210> 9795

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-B6

<400> 9795

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gtgtcaggat aaattttctt ctctctctct ctctcataag ccctgtcatg ttctgtattg 180  
caactttgtg ccatacatga cgatgcaggg agtagattta acatcagaga tgggataaca 240  
tgttgtcata ctctagtctg caaacatcaa gtctataccg tttgattcct gaaagtggct 300  
gcacccattt tctcagagta catcgcaggc attttctttt cgcattttcc gctcttcaac 360  
cactgcttca accgagtctg 380

<210> 9796

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-B7

<400> 9796

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cacaaaacat cagggcacaa caactacaac aacttgtgct agcaaacctt gctgcatact 180  
ctcagcaaca tcagtttctt ccattcaacc aactggctgc attgaactct gctgcttatt 240

tgcaacaaca attaccattc agccagctag ttgctgccta cccccagcaa tttcttccat 300  
tcaaccaact agcagcattg aactctgctg cttatttaca gcagcaacaa ctactaccat 360  
tcagccagct agctgatgtg agccctgctg ccttcttgac acaacaacag ttgttgccgt 420  
tctacctgca cgc 433

<210> 9797  
<211> 419  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-039-Q1-K1-B9

<400> 9797

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cgcacaatag gagtctcaga gagaaacgac tgtcccaagt tcgatctcat ccttctcacc 180  
atggggtccg atgggcatgt ggcctcgctt ttcccgaacc accctgccat ggagctgaaa 240  
gacgactggg tcacctacat caccgactct ccgcagcctc ctccctgagag gatcaccttc 300  
actctcccag tgatcaactc agcatccaac atagcaatag tgtccactgg tgatgacaaa 360  
gcaaaggctg ttcacatagc agtttctgac atggcncgaa gtcttgatgc tccacatc 419

<210> 9798  
<211> 409  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-C10

<400> 9798

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acccaacctg tgatcccaag tctctacagc atgctctggg aaaggagacc atagagtatg 120  
aagagtttct gaaaaccggt gaccggaggt tcagttggaa gccaccgaag gacgagtggc 180  
agagcatcgc cctaggctac acttctggga ctacttccag cccaaagggc gtcgtgttgc 240  
atcaccgcgg tgcttatctc atggcactca gcgttgccat cgtgtggggg atgcctgaag 300

gggctgtcta cttgtggact ctgccatgt tccattgcaa tggttggtgc tacactaggg 360  
cgctggcagc gttctgcgga acaagcatat gtcttcgcca ggtgagcac 409

<210> 9799  
<211> 395  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-C11

<400> 9799

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ggtgaagatg ttagtggaat gcctacattt gcccttcctg ttcacgatgg tggggtaggt 180  
tttgactatc ggatgcatat ggctgtggct gacaaatgga ttgaccttct caagcaaagt 240  
gatgaaactt ggaagatggg tgatattgtg cacacactta caaataagat gtgggttagag 300  
aagtgtgtaa cttatgccta aaggcatgat ccagcattaa tcggccacca gacttatgcc 360  
gtttgggtga ttgaccagga tatgtatgat ttcac 395

<210> 9800  
<211> 393  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-C12

<400> 9800

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tgctcacaag ctctatagc ttcccttctt ccccatacc tctcaccagc ggtgtcttca 180  
gtgtgtgaaa acccaattgt tcaacctac aggatccaac aggcaatcgc aacaggcatc 240  
ttaccattat cacccttggt cctccaacaa ccgtcagccc tattacaaga gttacctttg 300  
gtccatttgg tggcacaaaa catcagggca caacaactac aacaacttgt gctagcaaac 360  
cttgcttgat actctcaagc acatcagttt ctt 393

<210> 9801

<211> 345  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-C2  
  
 <400> 9801  
  
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 caccctagat cgagctactc accctagacg agcagactca caacatgtac cagtgtgaga 180  
 ctatctgcct caccaatcac ttacatcaga cctgtgccaa gcaccgtccc aagttcacac 240  
 tgatgcacgc actgctcctg gatcatcagc cggagctcgt tgatgaagac cctcttatgg 300  
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<210> 9802  
 <211> 331  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-039-Q1-K1-C3  
  
 <400> 9802  
  
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 tccgtgctga agatgtgcag ggcaggaatg tgctcacaaa cttttggggc atggattnta 180  
 ccactgataa actcagatcc ctagtgaaga agtggcagac attaatcgaa gcccatgttg 240  
 atgtcaagac aaccgacaac tacatgttgc gtctgatctg catcggttc accaagaggc 300  
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<210> 9803  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-C5  
  
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tgatttgctg ctgcaacaag atggatgcta ctacacccaa gtattcaaag gcccgttatg 120  
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 tctac 185

<210> 9804  
 <211> 367  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-039-Q1-K1-C6  
 <400> 9804

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 atggaaagaa acggtcaagc ttttcctcac ttgtccacct ttcttcctgt gaccacacaa 120  
 tcaaacagct ctctgaacc atgatgttcg aacagcttgc cggatgtggc gctcgttctt 180  
 ctgcaacagt tcatcgacct tgtgcgactg ggacaacaaa aggcccgagt actcgacctt 240  
 ctcttcttga ccatgaccgg ccttgaagcc attcttcgat gaaaaaatac ccccaaagaa 300  
 catggcgctt gaaaagttat gggaatggta agtgtcgcaa gaatcgaacg aatctgggcg 360  
 ctctaac 367

<210> 9805  
 <211> 317  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-039-Q1-K1-C7  
 <400> 9805

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 ggtcatgtcg tcaccaagcg cgagctgcct acccgcccgt gccaccgcaa ggggaaatca 180  
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 aagagaaagc ttggaac 317



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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-C8  
 <400> 9806  
  
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 aatgctcact tgctccgagt gccattattc cacagttcct cctccagtt acttcaatgg 180  
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 tagaacaacc aattgccccaa ttacaacaac aatccttggc acatctaacc atacaaacca 300  
 tcgcaacgca gcagcaacaa gcaactgagcc acctagccgt ggtgaaccct atgcgcctact 360  
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 aa 422

<210> 9807  
 <211> 349  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-B3  
 <400> 9807  
  
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 caagattcat ggaacgctcc caatcccatg catgtcagcg cccaacacac aggggaagagg 180  
 ccaggctacc aggtttatca gaagctgttt caataaccgg agaatttttt ttccatgccca 240  
 atgcacactg tacagaggtg atgctggacg aatcgagctg gagccttgtg tccggtgccg 300  
 agaagcccga gacgatgtcg ctttgagctt actctaacgt gttcggact 349

<210> 9808  
 <211> 395  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-038-Q1-K1-H8

<400> 9808

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gcaagattgt ccctgccact gctatccctg atgactggat gggctctgat gttggccctg 180  
atgccaccaa aacattcaac gaagcattgg acaccaccaa gactgttatt tggaacggcc 240  
ccatgggagt gtttgagtgc gagaagtttg cagctggcac tgaggcgatt gccagaagc 300  
tagctgagct tacaaccacg aagggtgtca ctaccatcat cggcggcggc gattctgtcg 360  
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<210> 9809

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-H9

<400> 9809

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atacctcatg aaattcttcc aaagctcagc cccaaggct atgctgttct tgaacttctc 180  
cacggacact tttgattctt tcaagtctgc ctactctgct gccgcggagg aattcaagga 240  
cacggaaatc aagttcctta ttggtgacat cgaagccagc catggtgcct tccagtactt 300  
tggcctgaaa gaggaccaga cacccttat actcatccag gatggtgact ccaagaagct 360  
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<210> 9810

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-A10

<400> 9810

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accttgtttg aggcaaacat ggccgctgcc gtgacacctc aaagaatgtg gttgcttgag 180  
ggcatcgctg gtgtctttat ccggttcaca gtcacctggg acaggaagct gcagagttca 240  
gcagttggac acggtgtggt tccttgccctt gagaagttgc tttcacaagg atcggtggac 300  
gccaaagtcta aagcggcaac atccttgccc caactgtcac agagcacgat ggcgctgcgc 360  
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<210> 9811

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-A12

<400> 9811

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tctacaagcg cctggacgtg ttcgtcacct accgcgacga ggccgtgacg gtgcccgtgt 180  
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ccgagtcctg gcccggttgc gcctacgtcg ccgacgccat gaagcaggac gtcgccgcgg 300  
gcttcgtcgc gctgcaggtc aaggtggacg gccgcgtcaa gtggaaagtc ggcagctggg 360  
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<210> 9812

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-A6

<400> 9812

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ttgctgtagt aggagccgtt ctggcatcca tactctccag tgccctttta ggtgcttatg 180  
ctgcagttgt agcttatcag gaatcctccc ttatcctggg aattgcctat gtgttctcgt 240

cagtgtctat atttgatgaa tacacaaatg atgttcttga catggcgctt ggttcttgtt 300  
 ttccaagatt taaatatcgg aagggcaaag atgagtcctt acacgggcac agtgttccat 360  
 tatccagacc agcctcattc aacagggaga agcaaga 397

<210> 9813  
 <211> 409  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-039-Q1-K1-A8  
 <400> 9813

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 ttaccacaa tgctcacaag cttctatagc ttaccttctt ccccatacc tctcatcatc 180  
 ggtgtcttca gtatgtgaaa acccaattct tcaaccctac aggatccaac acgcaatctc 240  
 atcattcatt atacctttat cacccttgat cttcaacaa cttcatccc tattacagca 300  
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<210> 9814  
 <211> 400  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 cggagtacgt acccacgtac gaggacaagg atggcgactg gatgctcgtc ggcgacgtcc 180  
 cctggaagat gttcgtggaa acctgccagc gccttcgtct gatgaaaggc tcagaggccg 240  
 tgaacttggc accaagagcc gnccgatgag gcacactccg ttgggcgctt gcacgcacgc 300  
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gataggaacg tgtgtacagt tgtcgcctta tggattgag 400

<210> 9815

<211> 373

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 9815

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ccgtccctgc tcgcgcggcg ctgggcggcg ggcgcgccc gctgctgggc ggggtggaacc 180  
cgatccctga cgtgagcgac tcgcacatcc aggagctagg cgggtgggcg ctggggcagg 240  
cgaagcacca gaagctggcc gacgacgggc tcggttccg ccgcgtggtg cgcggcgagc 300  
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gtaccgtgcc cta 373

<210> 9816

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-B10

<400> 9816

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gccgacgccg gtccacctgc caccgacggt ccatgtgccg tcgccggttc atctgccgac 180  
gacaccatgc cactacccta ctcaaccgct ccggcctcag cctcatgccc agccacaccc 240  
atgcccgtgc caacagccgc atacaagctc gtgccagctg catggaacct gcgagcgttg 300  
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gcgacgccct actgctagac tc 382

<210> 9817

<211> 196

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 ctccgatctt gcatatctga aggtgctatc atagaggaca gtttactaat gggcgccgac 120  
 tactatgaga cagaagctga taaaaaactc cttgccgaaa aaagtggcat tcctatgggt 180  
 attgggaaaa atcatg 196

<210> 9818  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-B12  
  
 <400> 9818  
  
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 ctccgatctt gcatatctga aggtgctatc atagaggaca gtttactaat gggcgccgac 120  
 tactatgaga cagaagctga taaaaaactc cttgccgaaa aaggtggcat tcctattggt 180  
 attgggaaaa attcatgcat caggagagca atcattgaca agaatgctcg aattggagac 240  
 aatgttaaga tactcaatgc tgacaatgtt caagaagctg caatggagac agacgggtac 300  
 ttcatcaaag gtggaattgt cacagtgatc aaggatgctt tactccctag tggaacagtt 360  
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<210> 9819  
 <211> 391  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-B2  
  
 <400> 9819  
  
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 cgagcacaag gcccttggtg ggctttgccg gcaggctcgt gtactgctgg aacggggcca 120  
 ttgagaactt ggtctgactc cagaattcag gaggtaggaa gccgtaggtc ttcatcaggc 180

agtcgaaggt tgccttgacg aagttgccaa gggctcttagt ggagccacgg gacgaggtga 240  
agacatcctc aatgccagcg aactgcagca ccttcttggg cacgcgcgcg gcgacgatgc 300  
cagaaccctt gggcgcgggt accatgcgca cggtgacgga gccacacttg ccagtgcctt 360  
tgcaaggcac ggtgtgcggc tgtccgatct t 391

<210> 9820

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-038-Q1-K1-H7

<400> 9820

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tccccccagg attttctgga agtcaaggag ttcaggttca ggaccgtgag atcaatgggc 180  
tgaacgagca gctagaggaa gactcccgcg tgctggagct tctgcagaag cagctggctg 240  
acgagcgcag gaagcggaca gagatcgaga aggagaactc catgctccat gagcagggtca 300  
ccatgctgat gaacatgctc gacgagaacg agggtttcga cgaggacgga gaggccccgc 360  
cgcccgattc cttcgattaa gcgttggttac agtactatan tccgtttctt tttcccggtca 420  
gtgtgaaatc atacgtctct a 441

<210> 9821

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-F8

<400> 9821

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catcacactc cttaacgact tgtgctagcc atctacttgc tagtcgcaat gaatgttatc 120  
gattgtgcac acagcgtgag accaatccag ctgctttgtg taactatagg agaccaagtg 180  
atcattccac ctaccgtgta atccagataa tgcgtacatc gtatcatgac tttgagatgg 240

tgccctagat atgatgatat actgcgatgt cagcgactgc acaacttatg taatcaatat 300  
agcaaggatt ag 312

<210> 9822  
<211> 408  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-038-Q1-K1-G1  
  
<400> 9822

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tgtcaacata actggaaatg gctatctaga gcagagattg cagcctggat tgagtggttt 120  
acagtctatg ggttattcat ctacagatacc tattcaacct ggtggtacca ctgcaaacct 180  
gatgcataat catgtcaaaa ttactggaga gactgtcccc tctacacttg attcagttgt 240  
accttcaata gcaccatcag gtggcatgcc aatcaaactt acagaagcac cactaactgc 300  
ttcgaagaag aaccctgtta gtcgtccatc aaagcctgtt ggaccacctt caggatttaa 360  
tcatgtaacc ccaaagcgtc aagatgattc tattccggtt gaaaaact 408

<210> 9823  
<211> 417  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-038-Q1-K1-G10  
  
<400> 9823

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tggacgatga tgagcggat aaccgaaaac tcgaagctgg gctttacaca ctgcagttaa 120  
ttgcgcttat tctgggacac atatggcact ctgggaattc ccagatgaga gcaagagtag 180  
aattacttct taagcagaac atacttacia agcaagatgt gaagagcata cttgaggagt 240  
accatgacaa cattggagat ttggatggac ctgaagagaa ggatagagca caagtgtctga 300  
ccatggaaat tattgacgcg tcgtgatgtg catgggccta gggtagttgg ttgtggagca 360  
agacagaggc tggtagatat tttgagtatg ttgagtgaat ttatatgcac agtcagc 417

<210> 9824



<211> 180  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-038-Q1-K1-G12  
  
 <400> 9824  
  
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 cctcgacagc ccgaaacctt ggccgccgat cggtttcgga gaagagaacc aaatcaggat 120  
 gtttctcggg tcgttcccgc ggggcccgcac caaggaggct gcttacaagc agctgcgggc 180

<210> 9825  
 <211> 357  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-038-Q1-K1-G3  
  
 <400> 9825  
  
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 agtggccgtc acagtacatc gtcgatactg ctaaaacact tatactaccc aactgaacca 180  
 ccttgaccca catgcatatt tatgcagctg gcactatagc gactaggccc tctccactcg 240  
 atcttcccaa cacttgaaca gcctcaatag ctaatgtgac gcgcactctt acagaacctt 300  
 cagcaactgc ttogaagaag atccctgcaa cgtgaccatt acactctgca gcaccat 357

<210> 9826  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-038-Q1-K1-G6  
  
 <400> 9826  
  
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 tccttgctgc ctgctacaag gcgtcaacg agcaccatgt cctcctggag ggtaccctcc 120  
 tgaagcccaa catggtgact ccaggctccg actccaagaa ggtgactcct gaggtgattg 180  
 ctgagtacac cgtccgtacc ctccagagga ccgtccctgc tgctgtgcct gctgttgtct 240

tcctctctgg tggacagagc gaggaggagg ccacccgcaa cctcaatgcc atgaacaagc 300  
 tcagcaccaa gaagccgtgg tccctgtctt tctccttcag ccgtgccctc caagcgagca 360  
 ccctcaaggc ctgggctggc aaggtggaga acttggagaa ggctagagct ggcttcctcg 420  
 ccaggtgca 429

<210> 9827  
 <211> 438  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-038-Q1-K1-G7  
 <400> 9827

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 tgacttgaca gatcctgctc ctgctaccac ctttgcccat ctgatgcta ctactgtgtt 120  
 gtcacgtcag atttctgagc ttggtattta ccctgccgtg gatcctctgg attccacatc 180  
 cagaatgttg tccccccatg ttctgggtga ggaccactac aacactgctc gtgggtgttca 240  
 gaaggttctt cagaattaca agaatctcca agatattatt gccattctgg gaatggatga 300  
 gctcagtga gatgacaagt tgacagttgc tcgtgctagg aagattcagc ggttccttag 360  
 ccagcctttc catgttgctg aagttttcac ggggtgcacct ggaaagtacg ttgagctgaa 420  
 cgagagcggt aaaagttt 438

<210> 9828  
 <211> 439  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-038-Q1-K1-G8  
 <400> 9828

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 acaagcccaa caggatcaga ggaggtgatg gcgaggagt acagctgcct ggcgcgcgtg 180  
 ggtgccggaa ttgctatcgg tggcgcggtc ggcggagccg tcggtgcttg ctatggaact 240  
 tttgaggcgt tcagatacaa gatccctgga ttgctaaaga tcagatacat tgggcaaacc 300

accgttggca gcgctgcgat ttttgggctt ttcttggggg ctgggagctt gattcactgt 360  
ggaaaatcct actagtttgt ttcccttttt ttttctgaag tctgaacaca cttttgtcga 420  
tgggcttcag tgaaaacta 439

<210> 9829  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-G9

<400> 9829

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tatccaggca cgtgtcacca ctactgatgc cattggctac catgaaccca tggatgcagt 120  
actgcatgaa gcaacagggg gttgccaaact tgttagcgtg gccgaccctg atgctgcagc 180  
aactgttggc ctcaccgctt cagcagtgcc agatgccaat gatgatgccg ggtatgatgc 240  
cacccgatgac gatgatgccg atgccgagta tgatgccatc gatgatgggtg ccgactatga 300  
tgtcaccaat gacgatggct agtatgatgc cgccgatgat gatgccaagc atgatttcac 360  
caatgacgat gccgagtatg atgccttcga tgataatgcc gaccatgatg tcaccaatga 420  
ttatgccgag tat 433

<210> 9830  
<211> 429  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-H1

<400> 9830

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ggtgacaatt gcacaggccc agaatttgat tcaagctggg gtggatggat tgcgtgttgg 120  
aatgggatcg ggctcaattt gtaccaccca agaggtttgt gctgttggaa gaggacaggc 180  
aacagcagtg tataaggttt catcttatgc caaggatcac aatgtaccgg ttattgctga 240  
tggtggaatt tcaaactctg ggcataattgt gaaagctctg tcgctggggg catccactgt 300  
tatgatgggc agcttttttag ctggtagtca tgaagctcct ggtacttatg agtataaaga 360

cggccgccga gtcaaaaaat acagaggcat gggctctctt gaagccatga caaaaggag 420  
tgatgcaag 429

<210> 9831  
<211> 198  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-038-Q1-K1-H11  
  
<400> 9831

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ccaggatgtt ttccctocta atgctcctgg ctctttcggc atgtgtggct aacgcgacaa 120  
ttttccctca atgctcacia gctcctatag ctccctttct tccccatac cttncatcaa 180  
tgatagcttc agtatgtg 198

<210> 9832  
<211> 430  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-038-Q1-K1-H2  
  
<400> 9832

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ctgtaaagaa aagcaagaat atactctttg tcatctccaa accagatgtg ttcaagagcc 120  
cgaattccga cacgtatgtc atattcggcg aggctaagat cgaggacctc agtcccagc 180  
tgcagaccca ggcagcagag cagttcaagg ctcttgactt gagccagatg atctcgaatc 240  
cagagacgtc tggcccggga caggaggaca atgatgaaga ggtcgacgaa actggtgttg 300  
aggccaagga cattgagctg gtgatgaccc aggcattctgt ttcaaggccc aaggctgtca 360  
aggccctcaa ggcttcta at ggggacattg tcaactgccat catggatctg acaacctnag 420  
gtgatatttc 430

<210> 9833  
<211> 444  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-H4

<400> 9833

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gggttcgtca gagacacgat ggagtcgata cgctgcatgc agatccgccca agtgctcatg 120  
cagatcatca gcctcgggtat gattgttacc tctgcattaa tcatatggaa gggtttgata 180  
gttttcacgg ggagcgagtc accagttgta gtggtgctct cgggtagcat ggagcctgga 240  
tttaaaaggg gtgatatacct gtttttgcata atgagcaaag atcctattcg cacaggagaa 300  
atagttgttt tcaatgtcga tggctcgtgag attccaattg ttcaccgagt gattaaggctc 360  
catgaacgtc aggacactgc agaagtggac atcctcacca aagggtgaaa taattttggg 420  
gatgaccgac tattatatgc acat 444

<210> 9834

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-038-Q1-K1-H5

<400> 9834

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agaagtggaa tatcatctac cctgtctacc tcaactccaa gaagacggtc gccgagggcc 180  
gccgcacgtc cgctgccaaag gcctgcccgg accccacctg catcgagatc gctgactgct 240  
gttcgcacct caagatcccc cacgccatcg agttggataa ggcgtaacct cgggatttct 300  
tccagggtggg gagggtcagg gtgcagctta agaaagatga cggctcccc gtcaatcctg 360  
ctattaaaac gaagaagcag ctgatgatcc aagtagcaga gctagttccc aagcatcacg 420  
ngaggacaaa ga 432

<210> 9835

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-H6

<400> 9835

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gatggagact gtgagaatga cctccaaagc ctgataagtg actgcaagac atacgtgatg 180  
ttcccagcta atccaaaggt cctccttcg gatgcttgct gtggtgtcat caagaaggca 240  
aacgtttctt gcttgtgctc caaggtcacc aaagaaactg agaaggttgt gtgcatggag 300  
aaggttgtgt atgttgctga gcagtgtgag aggccatttg agcatggctt ccagtgcgga 360  
agctacaagg ttccagcaaa ctgatgatat cgcaagaggg aagcgcttga cgt 413

<210> 9836

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-F7

<400> 9836

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gtgtatcgct acaagatttg ggtgctttgc aacgattgca acaaggcttc agagggtgaac 180  
tttcaogtga ttggccacaa gtgcagccac tgcagatcgt acaacacccg aacgacatcg 240  
cgccctgcag atttatcggg aagcagctca ccttcaacag actcatccga caacaacata 300  
tagagaagaa accattgaca gagccaatat gattgaagaa ccgaaggagg aaatattgtt 360  
tcggggcgctg cgtgcttgcc aaacttgaag actcccagcc gtttattggc cctcatcttg 420  
gct 423

<210> 9837

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-E1

<400> 9837

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ctgcaacaac aattgttgca acagattgta ccagctctga ctcagctagt tgtggcaaac 180  
cctgctgcct acttgcaaca gctgcttcca ttcaaccaac tgactatgtc gaactctgct 240  
gcgtacctac aacagcgaca acagttactt aatccactag cagtggctaa cccattgggtc 300  
gctgccttcc tacagcagca acaattgctg ccatacaacc agttctcttt gataaacctt 360  
gtcttgctga ggcagcaacc catcgcttga agtgccaatc ttttagatac atatgag 417

<210> 9838

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-E10

<400> 9838

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cttggttctt caacaaccgg caggcctatt acagcaggta cctttggggc atttgggggc 120  
acaaaacatc aaggcacaac aactacaaca acttggtgta gcaaaccctg ctgcatactc 180  
tcagcaacat cagtttcttc cattcaacca actgggtgca ttgaactctg ctgcttattt 240  
gcaacaacaa ttaccattca gccagctagt tgctgcctac cccagcaat ttcttccatt 300  
caaccaacta gcagcattga actctgctgc ttatttacag cagcaacaac tactaccatt 360  
cagccagcta gctgatgtga gccctgctgc cttcttgaca ca 402

<210> 9839

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-E12

<400> 9839

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ttgagaccct cttggcgctt atggactttt cggggaaccc aaaactaggg ttcataattg 120  
cccaaggcga acttgctcgt actgccatat ttacacagat tgtccaacca atccctaaaa 180

tgggcttcga acacctacct gtgcaagcca acatgcgtca acaagcgctt gcggcgagcg 240  
 tcttacaaca accaattgcc caattgcaac aacaatcctt gccacatcta acaataacaag 300  
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<210> 9840  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 ggcgagggcg caccocgagc tgcgcgtcaa ctgcgcgcac ccgggctacg tgaagaccga 180  
 catgaccagg cagacggggc tgctgaagcc cgcgcagggc gcggccaacg tcgtcaaggt 240  
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 gttcgtgtga cgctgccgta ctgggctggc ggtggtgggg acttcacggc ccggcgctag 360  
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<210> 9841  
 <211> 320  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-038-Q1-K1-E6  
 <400> 9841

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 ttaggcattc tttcttttcg tatggatttg gtttcaaata ataaatactt gttgtaatct 120  
 tattagcctc tgagggcaca ccttgcttca acatatttgt atacggaatc gatgacaagt 180  
 atccatgctt caacatatta acttacaaaa tgacacacga catcaaacta tcaatctacc 240  
 agcagatagc cggtgaccct gcaactacta tgacaacgta ctacaattgc tgccatatgt 300  
 gcatctagct gtgacaaacc 320



<210> 9842  
 <211> 346  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-038-Q1-K1-E7  
  
 <400> 9842  
  
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 gagccctgct gccttcttga cacaacaaca gttgttgccg ttctacctac acgctatgcc 180  
 taacgctggc accctcttac aactgcaaca attgctgcca ttcaaccaac ttgctttgac 240  
 aaaccagca gtgttctacc aacaacccat cattggtggt gccctctttt agattgctta 300  
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<210> 9843  
 <211> 397  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-038-Q1-K1-E8  
  
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 actattgttg ctaaaactca agaaattatg gataaagcta ttgagaaggt tgagttcctc 180  
 gtgggacgtg aaattgaagt tggtcgtaca taaaaggaa ttgtttcttc gattaaggag 240  
 tatggcgctt ttgtggagtt caatggtgga caacaaggct tacttcatat ttcggagttg 300  
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 agatgcattg gacaggacat gcgngtaac attaaac 397

<210> 9844  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations

<223> Clone ID: LIB3059-038-Q1-K1-E9

<400> 9844

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gtctcccacg gttgtagctg acatgggact cgaacttctg tcggtgacct ttatttttag 180  
cgtcattgtc tattttgcac tctacattgc cggcatcaag tccggccaca aaagttcttc 240  
tttgagacca catgttagtg ggagcttcat gcaagattgg tggtttggag tgcaacttaa 300  
tcctgattct atggaagttg acctcaaag cttctttgtg agggcacgaa tgatggcatg 360  
gttatctatt aacctctcta tgtttgcaaa gagccactgt gctggatcag ccaatc 416

<210> 9845

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-F1

<400> 9845

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cacgagcaac gacctaacaa caatggctac caagatatta tccctctttg cgcttcttgc 120  
cctttttgtg agcgcaacaa atgcgttcat tattccccaa tgctcacttg ctcttagtgc 180  
cattattcca cagttctctc ctccagttac ttcaatgggc ttggaacacc cagctgtgca 240  
agcctacagg ctacaacaag cgcttgcggc gagcgtctta caacaaccaa ttgccaatt 300  
acaacaacaa tccttggcac atctaaccat acaaaccatc gcaacgcaac agcaacaaca 360  
atttctacca gcactaagcc aactagctgt ggtgaaccct g 401

<210> 9846

<211> 178

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-F11

<400> 9846

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catctaacca tacaaccat ggcacgcag cagcaacaag cactgagcca cctaaccgtg 120  
gtgaacccta tcgcctactt gcaacaacag ctgcttgcac ccaacccatt gcttgcca 178

<210> 9847  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-F2

<400> 9847

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ttggcagcaa caactattac catttagcca gctagctact gcctactctg aacaacaaca 120  
acttcttgca ttttaaccaat tggccgtact gaaccccgct gcttatttgc agcatcaaat 180  
actactacca tttagccagc tagctacaac aagccgtgct ttcttcttga cacaacaaca 240  
agtgtgacg ctctaacaag agcttgccgc taaccccgca accctcttac aactacaaca 300  
attgctgccc tttgtgcaac atgctttgac aaaaacaata gcctcctacc aacaacacct 360  
tattggaggt gccctatatt agattgctta ttag 394

<210> 9848  
<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-F5

<400> 9848

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tttgcaacaa caactaccat tcagtcagct agctgctgcc taccaccagc aatttcttcc 120  
attcaaccaa ctggcagcat tgaactctgc tgcttattta caacagcaac agctaccacc 180  
attcagtcag ctagctgatg tgagccctgt tgccttcttg acacaacaac agttgttgcc 240  
gttctacctg cacgctgcgc ctaacgctgg caccctacta caactgcaac aattgctgcc 300  
attcaaccaa cttgctttga caaacccaac aacgttctac caacaacca tcattggcgg 360  
tgccctcttt tagattgctt atgagttata gttcaataat gaagttattt ggatgat 417

<210> 9849

<211> 441  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-F6

<400> 9849

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cacaagctcc tatagctccc cttctttcca cgtacctctc accagcgggtg tcttacgtat 180  
gtgaaaaccc aattattcaa ccctacagga tccaacaggc aatcacagct ggcattctac 240  
ctttatcacc cttgttcttg caacaatcat cagccctatt acatcagtta cctttgggtgc 300  
atattattggc aaaaaacatc agggcacaac aactacaaca actagtgcta gcaaaccttg 360  
ctgcctactc tcagcaacag cagtttcttc cattcaacca actagctgca ttgaactctg 420  
cttcttattt gcaacaacaa c 441

<210> 9850  
<211> 420  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-D9

<400> 9850

gcaacacaga gtaccaacaa tggcagccat acaatttagc gtgggttatgc atcttgggct 60  
gcgtgcgagt gctgctatcg caaccgttgt tccacaatgc ttacatgctc ctatagcttt 120  
ccttcttctc ccatacctat caccagcgcg gcttcatgcg tgaagaccca atggatgcac 180  
cctacctgat acaacaggca ctgcgaacaa gcattctgagc agtatcacca ctgttgcac 240  
aacaaccgtc atccctatta caagagttac cttagggtcga tgcgggtggcg caacacattc 300  
tggcacaaca actacaacaa cttgtgctag caaaccttga tgcatactcg cagcaacatc 360  
agtttctgcc attctaccaa ctggctgcat cgaactatgc cgcctatttg caacaacaac 420

<210> 9851  
<211> 443  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-C4

<400> 9851

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ctgcatacca agaagttggt ggtgctagtg cctcgcaaag tgccattgag gccagaaaag 120  
ctactgctgc ggcattctcag ctcaactcgca gtggttcatc aagggcaatg gaaaatgcac 180  
aggacggcgg ggagaggaag taacgagata gagctcgttt ttttttatcg tctatgctac 240  
atcttatgga tgcataatgat cctgcctgac gattctcagg tctcagctct ccgtggctcc 300  
gtgtgcaaat ctctgccacg ggcgtgtttt aacgcctgat tggatgggtg cccgctggcg 360  
cgcccgccca gcctcgtagc gccacttcgg acgcatctgc atcttcggag gtaccgcgag 420  
atgtagatga atggccgtaa aat 443

<210> 9852

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-C6

<400> 9852

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tttattttaa aaggtttgcc gttttatatg atccaaactt acataaacat gcattcgagg 120  
taataattat tctataatga cacctaaatt taattcactg accatttaat tacaatgcc 180  
taactgaaaa aactctcacc ttaccaatgt taatcgcatc ccatcacatg cccctttcta 240  
aatctgcagt aatactctaa aggatggtag caattatcct taccaatagt tccccaacct 300  
gaatcctaaa tgggactcgc attgtataag aacattaaca actt 344

<210> 9853

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-C7

<400> 9853

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aggagctggc ccttgaggag gcgagacca tagcccttc tattctgaag caggttatgg 120  
aggagaaggt gaccccaaac aacgtcgata ttgccaaggt tgctcccaag taccacctct 180  
acaccctgc cgaggtcgaa gccgtgatcg cgaggctgtg aaacgctttc ggagctcgtg 240  
ttattcatgt catcaatcgg taatagacga tccttgtagc aagcgtggac atcttttggt 300  
cttgattatg gctgtcatcg tactctgttg ttaactccac aaggacagtc gatggtacta 360  
tgattcacac ctcagccga ttccgttgtc tgattgccta gtgcctacac ttgttttttt 420  
attttaccgt ttcggct 437

<210> 9854  
<211> 389  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-C9

<400> 9854

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gaactgctgg cgcagcagct caaggacaac ctccacagca gcggcgactg cactggccat 120  
ggcaccctct ctccggaaga agacgacggt ggcgtgggtca gtgacgaggg ctgcagcttc 180  
gctctcccg atgcatgtt cgctgccggg ttcacccacc atggcgccga ggaggcgcag 240  
ctggccaact ggacatccat gttctggaac tgatcagcgg atggatgcat ccaagtgcaa 300  
agatcggtac ctctcctagt ctgcaccctt ttctgcagca tataattacc gtgttaatta 360  
tgtgccgtcc gatgtttgta agtgcctcat 389

<210> 9855  
<211> 330  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-D1

<400> 9855

aaaggaccgc ggcgcctcgc tcgagttcta cgcaccttg tgtggtcact gcaagaagct 60  
tgctcctgag tatgaaagac ttggtgcaag ttttaagaaa gctaaatctg tcttgattgc 120  
taaggttgat tgtgatgagc acaagagttt gtgcagcaag tatggagttt ccgggtatcc 180

aacaatccaa tggttcccgga aaggatcctt ggagcccaaa aagtatgaag gacaacgcac 240  
 tgcagaagcc cttgctgaat ttctcaatac tgaaggaggc acaaattgtaa agctggcaac 300  
 cattccttca agtgttgtgg ttctcacccc 330

<210> 9856  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-038-Q1-K1-D10  
 <400> 9856

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 accagggggtt tcaacaatca aaccagtaat tgcagcgaac cttgattctt aacttcagca 120  
 acaacaattt ctttcattca atcaactagc tgggggtgaac cctgctgctt acttgcaggc 180  
 acaacagcta ctaccattca accaacttgt caggagccct gctgccttct tactgcagca 240  
 acagttgttg ccattccatc tacaagttgt ggcaaacatt gctgctttct tgcaacaaca 300  
 acaattgctg ccattttacc cacaggttgt gggaaacatt aacgccttct tgcaacagca 360  
 acagttgctg ccattctacc cacaggatgt ggcaacaat gtcgccttct tacaacaaca 420  
 ac 422

<210> 9857  
 <211> 303  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-038-Q1-K1-D11  
 <400> 9857

agcaacaaca atttcttcca ttcaatcaac tagctggggt gaaccctgct gcttacttgc 60  
 aggcaacaaca gctactacca ttcaaccaac ttgtcaggag cctgctgcc ttcttactgc 120  
 agcaacagtt gttgccattc catctacaag ttgtggcaaa cattgctgct ttcttgcaac 180  
 aacaacaatt gctgccattt taccacaggt ttgtgggaaa cattaacgcc ttcttgcaac 240  
 agcaacagtt gctgccattc taccacaggt atgtggcaaa caatgtcgcc ttcttacaac 300  
 aac 303

<210> 9858  
 <211> 380  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-D2

<400> 9858

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 gtggccgctg gtgatgtgag cctgaaggag ctgtccaaga ggctcaacga cttcgccaag 120  
 gagagggact gggagcagta ccatagcccc cggaacctgc tgctcgccat gatcgctgac 180  
 gtcggtgagc tgtcagagct gttcatgtgg aaaggggagg tgcgcaaggg cctcgcggaac 240  
 tgggacgaag cggataaaga gcaccttggc gaggagctct ccgacgtgct gctctacctg 300  
 gtccgcctat gcgacatgtg cggcgtcgac ctcagcgacg ccgccctcag gaagatcgtc 360  
 aagaacgccc tcaagtaccc 380

<210> 9859  
 <211> 403  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-038-Q1-K1-D3

<400> 9859

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 tggacgggtg ccgcaccgtc agcagaccgt ggggagatgg gcaacgacga cagtgggtgt 180  
 gaggcggtgc cgccaggtcg gtccgtcgtc gtgacgacta caaagcccgc cgcagcagaa 240  
 ctttctgtga aggaggatgt cagattgtca gtattctagt ttgaggatat gatgatattc 300  
 ccaagtgagc atgggtgggt gtttccctcat caacaagcac tccaaggtat aattgatgtt 360  
 gctccaatac cgggtgtgag aagagccaca actgatgtta cta 403

<210> 9860  
 <211> 421  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3059-038-Q1-K1-D5

<400> 9860

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ttctcgtcgt gtgcctggct ctgtcagctg ccagcgcctc tgcaatgcag atgccctgcc 120  
cctgcgcggt getgcagggc ttgtacggcg ctggcgccgg cctgacgacg atgatgggcg 180  
ccggcggggt gtacccttac acggagtacc tgaggcagcc gtagtgcagc ccgctggctg 240  
ctgcgcccta ctacgccggt tgtgggcagc cgagcgcctat gtgccagccg ttccggcaac 300  
agtgtgccca gcagcagatg acgatgatgg acgtgcaatc cgtcatgcat cagctgcaga 360  
tgatgatgca tcttgagcgt gccgctgccg gcagcagcag cctgtacgag ccagctctga 420  
t 421

<210> 9861

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-D7

<400> 9861

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agtgggtggc agtggcacaa cctaataagc gcatgaacta attgcttgcg tgtgtagtta 120  
agtaccgatc ggtaatttta tattgagagt aaataaatgg acctgtagtg gtggagtaaa 180  
taaaaaaaaa aacaaaaaaaa aaaaaaaaaa aaaagaaaaa aaaaacaaag gcaacaagct 240  
gcaaaggatc aaaagctcaa gtactataaa gagcaacgat ata 283

<210> 9862

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-D8

<400> 9862

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acgtatggaa gctgatatag ctgatagtga tcaagaacaa cttcttgctg gtgtatcact 120

caggcaacat cgatgccaac gacaatcaat accaacgagc gtataaactg tacagtgtac 180  
 actcgtactg atactatgca taagcacaca aagaagctgt aacgaatcat ctaggttgat 240  
 gcaaggaatg gcattgggag cactatacta acaataccta gatgcacagc aggcgatcaa 300  
 tgtagaacca caagtataat atggacaagt agtaaactcat gatggacact gggagcaaca 360  
 accaaatctg ctacaactat tacag 385

<210> 9863  
 <211> 347  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-C3

<400> 9863

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 gagatgatca aagggcacct cactttgtga aagttgattg ggacaaatgg gttgacgaag 180  
 atgatgatgg tgctgatgtc aacttgatg ggatggactt ctogaatttt ggcggtatgg 240  
 gtggtatggg tggcatgggt gatatggctg gcttgggtgg tcttgggtggc atgggtggaa 300  
 tgggcggtat ggggtggtat ggaaatggat gatttgagga tgatagt 347

<210> 9864  
 <211> 437  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-A6

<400> 9864

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 tcacttgctc cgagtgccat tattccacag ttcttccctc cagttacttc aatgggcttc 180  
 gaacacccag ctgtgcaagc ctataggcta caacaagcgc ttgcggcgag cgtcttagaa 240  
 caaccaattg cccaattaca acaacaatcc ttggcacatc taaccataca aaccatcgca 300  
 acgcagcagc aacaagcact gagccaccta gccgtggtga accctatcgc ctacttgcaa 360

caacagctgc ttgcatccaa cccacttgct ttggcaaacg tagctgcata ccaacaacaa 420  
caacagttgc aacagtt 437

<210> 9865  
<211> 404  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-038-Q1-K1-A9

<400> 9865

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gaaaacagaa attgatggtc tgcaacagga acttggtcac gtgaggactg cttgcggggtt 180  
agagcagaag gggaatttgg aattgctgga acaaaggaag gcaatggaga agaatatgct 240  
ttctatggca cangagatcg agcagatgcg aggcgaatta gctaattttg aagttagacc 300  
aaggggcca ggtggagcat atgggatgca gattgggagt tcggaagtga cttcactaa 360  
gaacccatat gaagatgggt ataatgctta tgtggggggt cctg 404

<210> 9866  
<211> 397  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-B3

<400> 9866

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ttggcaacaa cagcaactac cattcaagca gctacctgct gcctaccagg agcaatgcct 120  
ttcattcaac caactggcag cattgaactc tgctgcttat ttacagtagt aacaactact 180  
accattcagc cagctagctg gtgtgagccc tgctaccttc ttgatacaac cacagttggt 240  
gacgtttctac cagcacgctg cgcctaacgc tggcacactg ttacaactgc aacagttggt 300  
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tggtgcccta ttgtagatgt cttatgagtt atagtcc 397

<210> 9867  
<211> 410  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-B6

<400> 9867

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tttgagcgca acaaactctc aggcaggaaa tgggttcattg ttgatccagt tgctgggtcat 180  
gatcttcacc ccatttacgc agatgggtttt gctactacat ccgacactga gccaatgcaa 240  
taaattgtgct tggggatttg ggctgtcatt ttgttccaac tcattcagct gccattttac 300  
agtttcatgt gtaaacttta gcaggcttga acgtagctgg atcttttctt tgtaatcata 360  
actactttga ataataaag ttatacactg taagctttgt tctcatgggt 410

<210> 9868  
<211> 316  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-B7

<400> 9868

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tcacggccca gtactctgtc cggcgctgc tcattgtccat ggcgctatcg acggagctat 180  
gacacatgta caaatgtgcg ttccatcccc atcctgcata gacgacaagg tgcaagtcgt 240  
gcgcggtacc tacaaggac ttgaggtcaa attggtgcac gtgtaacgac gttgctatgt 300  
tatacacgta tagcgg 316

<210> 9869  
<211> 363  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-C1

<400> 9869

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gatagtacaa agaaacaacc atcagccggg aattagacca aaaaagtgtg tggacaacta 180  
cttggcaaat gaaatccttc gcacagagat gcgatcgagc agtcctgaca tgtatgctaa 240  
taatcctttg atggagtatc tggactctta tggatcatg gatgctgaag atgaattaga 300  
tgcttatgca cagtatactg agaacatagc tgggaaatct gctcgtcaat ctgagagaaa 360  
agc 363

<210> 9870

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-C10

<400> 9870

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gtgatgaaga tcacgcccgt tcagaagcag acccgcgccg gacagcgcac ccgcttcaag 180  
gcctttgtcg tcatggggca ctgctacggc cacgtcggcc tgtgagtcaa gtgcgccaac 240  
gaggtggcca ccgtcattcc gcggcgccat cattctcgac aagctctacg ctgttcccgt 300  
caggaaaggc tactggggaa acaagattgg gcagtcacac accgtgccct g 351

<210> 9871

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-C11

<400> 9871

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gatcgtgcta aacgagcacc agatgatcaa agaccatcga tccggagact aaagtcgagg 120  
tgatgaacat cactcccgtt cagaagccga cccgctccgc acagcgacac cgcttcaagg 180

cctttgtcat cataagctac tgc

203

<210> 9872

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-C2

<400> 9872

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ggcacgggtg cgaccgggtga ctatgggtgc agcgaggaag tgcgagtcgc agagcttccg 120  
cttcaaggga ccttgctcga gggacgccaa ctgcgcaaac gtctgcctga ccgaaggttt 180  
caccggcggc gtgtgcaagg gcctacgcca ccgctgcttc tgcaccaggg actgctagta 240  
ctgcctcgcc tcgtgtcctg cgtgtgcata tatagccgca gccgatcaat taaacatgca 300  
tgcattgcgtt accaaatatt tggcagtacc agcaagttaa tgaattaaaa tattaataa 360  
tatgtcatgg aaaaaactaa agcagaaaaa gg 392

<210> 9873

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-A4

<400> 9873

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ggattttatc cagcagcgta taaacacgga gagcagcctg tctgccgtgt gcgagagagt 180  
gctggacaga tgcctggctc catcaacgat cgctggagac ggggtgcgaca acatgaccat 240  
gatcctgggtg cagttcaaaa aacctgtcga tcggaacaag aaggccgaag cagcagggca 300  
atctgccagc aatgtggacg aagccaagag tcgtgttgct gaggagtga gcatggctgg 360  
cactcaccag ggcgcaacca tttgctttca taaggcatgt gaaaaaaagg aacgaaaaaa 420  
cctgcagtgt acgtatctta act 443

<210> 9874

<211> 445  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-H1

<400> 9874

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 tcaaggaagg ccagcacctc gccgagcacg agcttcagtc gctctgcaa tacgtgaagg 180  
 agatcctcat cgaagagtcg aacgttcaac cggatgaatag cctgtgacg gtttgcggtg 240  
 acatccatgg gcagttccat gacctgatga agctcttcgc gacggggggc cacgtcccag 300  
 agacgaacta tattttcatg ggtgattttg tggaccgtgg cttcaacagt ctggaggttt 360  
 tcaccatcct gttgctacta aaagcgaggc atcctgcaca cataaccctt ctgcgtggaa 420  
 atcatgaaag taggcagttg acaca 445

<210> 9875  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-H11

<400> 9875

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 caattttccc tcaatgtca caagctccta tagcttccct tcttccccca taccttccat 180  
 caattatagc ttcaatatgt gaaaaccag ctcttcaacc atataggctt caacaagcaa 240  
 tcgcagcaag caacatacct ttatcgccct tgttgtttca acaatcgcca gccctatctt 300  
 tgggtgcagtc attggtacaa accatcaggg cacaacagct gcagcaactc gtgctacctc 360  
 tgatcaacca agtagctctg gcaaaccctt ctcctactc tcagcaacaa caatttcttc 420  
 cattcaacc 429

<210> 9876  
 <211> 426  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-H12

<400> 9876

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cgtaaggggt cgaaccggat ggagaggagg ggcggcggcg gcggcgagca ggagcaagag 180  
gatttggcga aaaaacttgt catcaaagtt gtgccgtctc aactggagca gcagcccctg 240  
ggtcagaaca aggcgctggg cgctccacat tgcacacctg ttcttggtga ttctggggaa 300  
gggaggagca aaagattcat tagccggttc acgtccatca acccttcgaa gattctcttc 360  
ttgttcggca cgctgtcgag cgtggggaca acgattctga tctactttac gctggcgatc 420  
aacagc 426

<210> 9877

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-H3

<400> 9877

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ggtctttctg caagtgtctg taccgcgacc atgttccgcg aatgctcaca agctcctata 120  
gcttcccttc ttcccgcgta cctctcacca ggggtgtctt cggatatgtg aaacccaatt 180  
cttcaaccct ataggatcca acaggcaatc gcagctggca tcttaccttt atcacccttg 240  
ttcctccaac aatcatcagc cctattacag cagttacctt tgggtgcattt attggcacat 300  
aacatcaggg cacaacaact acgacaactt gtgctagcaa accttgcttg ctactctc 358

<210> 9878

<211> 119

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-H4

<400> 9878



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aagcactaca ctgtgtttct tgcaaacaaa acacaacaaa caaaaacata aactataaa 119

<210> 9879  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-H6

<400> 9879

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tcacttcaa gaacacaagg gagacagcct ttgcgcttcg caagttgtct ttgaccaagg 180  
ctaagcgata ccttgaggat gttattgctc acaagcaggc aattcccttc cggagatact 240  
gtgggggtgt tggtcgcacc gcgcaagcta agtctcgcca ctccaatggg cagggccgct 300  
ggccggttaa atcagccggg ttcacccctg atttgctgaa gaatgctgag agtaacgctg 360  
atgtgaaagg cttggatgtg gacaacctct atatttcaca catccagggtg aaccaagccc 420  
agaagcagag gcgccgcacc tacc 444

<210> 9880  
<211> 444  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-037-Q1-K1-H7

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acgcgcggtg gaacccgacc aaggagcagg tggccgtgct ggaggggctg tacgagcacg 180  
gcctgogcac cccagcgcg gagcagatac agcagatcac gggcaggctg cgggagcacg 240  
gcgccatcga gggcaagaac gtctttctact ggttcagaa ccacaaggcc cgcagcgcc 300  
agaggcagaa gcaggacagc ttgcctact tcagcaggct cctccgcgcg ccccgccgc 360  
tgcccgctgt ctccatgcc cccgcgccac cgtaccatca cgcgcgcgc cgggcgcgcn 420

ccgcgatgcc gatgccgatg ccgc

444

<210> 9881  
<211> 203  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-H9

<400> 9881

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caggtttaca ttttttgagg agttctatgt ttttggatca tggatatttg tctcgaagat 120  
atgcctctgg tttcctttaa acttaatgcc tttgtaatca tttcgttctt agtatgggtg 180  
gacctttctt gtctgtttat cta 203

<210> 9882  
<211> 323  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-A1

<400> 9882

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ccggggccgca tctctccccg acgagtactt cctcgtgctc gtggggcgaca tggtcacgga 120  
agacgcgctg cccacatacc ataccatgat caacacgctc gacggcctcc gcgactagac 180  
tcacgccagc aactgcccct ggccagtctg tacgcgcgcc tggaccgacg aagagaaccg 240  
ccacggtgac atcctctgca agtacatgta cctatccggc cgcgtcgaca tgcgcatggt 300  
cgagaagacc cgtcagtacc tca 323

<210> 9883  
<211> 343  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-A11

<400> 9883

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ttcaactcaa tggttgttca tccagactca gtacagcgtg ggaactatac atttccaccc 120  
 actcatatta gccattcatg gatgtcccat gctacaaatg gtattgctga tggagttccc 180  
 cagtgggaat atgccaatgc aactgctaatt attcaaggca gatttgccca ttcaggagcc 240  
 acagaaatcg caaatgttgg ttttcatgaa tatcagaatg gcccttcaac tatttgctcg 300  
 ggaccagtac cttattttcca ccagcatgcg atgcatggca tgc 343

<210> 9884  
 <211> 320  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-038-Q1-K1-A2

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 ctggcttcca attcttcttc ttctggccgn ncgcctcgcc gncgtccctg ctgcgcggc 120  
 gctggcgggc gggcgcgccc cgctgctggg cgggtggaac ccgatccctg acgtgagcga 180  
 ctgcacatc caggagctag gcgggtgggc gctggggcaa gcgaagcacc agaagctggc 240  
 cgncgacggg ctgcggttcc gccgcgtggt gcgcggcgag cagcaggtcg tgtccgggat 300  
 gaactaccgn ctctacgtcg 320

<210> 9885  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-F4

<400> 9885  
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 ttctctatta cactctctgt ttgatttctt ggccttcaaa aatgatattc agttctggaa 180  
 caagaacaag tccatggaag gtctatcggc aaaatctgtg gttctgaatt ttgtgtgtca 240  
 actaattgtt ttctgtacc ttcttgacaa tgacacttca tggatgatcc ttgctagctc 300

tggaattggt gtttgattg agttttggaa gatcggaag gcgatgcata ttgaagtcga 360  
 tagaagtgga aaaattccca tgttgagggt ccgagatcgt gaatcatatg cacagaataa 420  
 gaccaaagag tacgatgc 438

<210> 9886  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-037-Q1-K1-F6  
 <400> 9886

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 aggttctca agtggtgaac tatggtaatg ttcattgtca cacggtgttc agtagtgaag 120  
 aagcagtggc taaccgagag ctcatgcaac ctgagcgagg agcacgtgag agggaactgc 180  
 tacaggctgt caatcaactc ggtgatgcca atgaggtttt gaatgagcgt gctgtagctg 240  
 tgatggcacg gatgagtgc aaactaacag ggcgtgactt ctcttctggg tcagctttgg 300  
 ctggagcagg tagctctatc caacatggca gtgagcattt ggcttcagga gatgcccggg 360  
 atgccaacc tgggtctctca gtgaagggtc aggttcagaa gtcatactc caagcgactt 420  
 cacacgaaaa tttgt 435

<210> 9887  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-037-Q1-K1-F8  
 <400> 9887

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 gttcgtcaac aagcagggcc agacgcggct ggcgcagtac tacgagcacc tctccctcga 180  
 cgagcgacgg gccctcgagg gcgagatcgt ccgcaagtgc ctgcccgcga ctgaccagca 240  
 gtgttcgttt gtggagcacc ggaactacaa ggtcgtttac aggcgctacg cctccctttt 300  
 ctctctcgtc ggcgtcgaca gcgatgagaa tgagttagct atccttgaat tcatacatct 360

tctggtggaa actatggatc gccacttcgg caatgtgtgc gagctcgata tcatgttcca 420  
tctggagaaa gtg 433

<210> 9888  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-F9

<400> 9888

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cacaacaact acaacaactt gtgctagcaa accttgctgc ctactctcag caacagcagt 180  
ttcttccatt caaccaactg gctgcattga actctgctgc ttatttgcaa caacaactac 240  
cattcagcca gctagctgct gcctaccccc agcaattact tccattcaac caactggcag 300  
cattgaactc tgctgcttat ttacaacaac agcagctacc accattcagc cagctagctg 360  
atgtgagccc tgctgccttc ttgacacagc aacagttggt gtcgttctac tcgcacgctg 420  
cgccctaacgc 430

<210> 9889  
<211> 173  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-G1

<400> 9889

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aaaaaaaaac aaaaataaac atacatacaa aactaaaaaa taaaatataa aatcccccta 120  
cttcaaatta ctccaccctt ttttaccacc ctttcaattt taaaaccctt ctt 173

<210> 9890  
<211> 439  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-G2

<400> 9890

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ctctctccgc cttccgagag gcccgacccc tgataccacg ctgagggcgg tggattagg 180

agattagcga tggcaagggtg gcggccggcg gcgctgctgg tagtggtctt ggcggcggtt 240

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cacgagttcg tgccctatga gggcgacacc gtgtccggga acttcgtcgt cgtcgaccac 360

gacatcttct ggagctccga ccaccagga atcgacctca cggtaacgtc accaggtggc 420

aacactgtgt acacattga 439

<210> 9891

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-G3

<400> 9891

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gaagtacaac atgaattcaa gggctgggag aggcctttacc cttgaagatt tgaaagcttt 120

gtgtattcca aaaaggcttg gtccaaccat tgacattact gtggaataac tgctcatgaa 180

caaataccta gaggagcttc acgccaatgt ccagaggctt aagacatatc tagccaagct 240

ggttatattg ccaaggcgtg ctcataaggc ctaggctgct gactctactc tggaggagct 300

taacaatgct acgcagtatc agggtgacta catgccaaatt actttcgtg agaagcgcta 360

tgtcaaggtc gtgaacgtca cagatgaaat 390

<210> 9892

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-G4

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gtctccactc ccccttcac agatccgttc ctccagctag ggtagcggtt cctctgcagc 120  
gatggcgatc aagcggacta aggcggagaa gaagatcgcg tacgacaaga agctgtgcag 180  
cctgctcgat gagtacacca aggtgctcat cgccctggcc gacaacgtcg gttccaagca 240  
gctccaggac atccgccggg gcctcagggg cgactcgggtg gtgctcatgg ggaagaacac 300  
gctcatcagg cgttgcatca aggtgtacgc cgagaagacc ggtaaccaca cctttgacct 360  
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<210> 9893  
<211> 437  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-037-Q1-K1-G6

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gggtacttat ttcttgctga acgccgagaa ctaccattgg caatggacgt cgttttcttc 180  
tgcagcctca accgctctgt acgtgtatct gtactccatc tactactacc atgtgaagac 240  
aaagatgtca ggcttcttcc agacaagttt ctatttcggc tacacgctga tgttctgcct 300  
tggcctaggg atactttgtg gagctattgg ctatctaggg tcaacccttt ttgtaaggag 360  
aatctacagg aatatcaaat gtgattaaat ccctgctgct taagctagca acaganaaat 420  
catatgtatt gtcagga 437

<210> 9894  
<211> 434  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-G7

<400> 9894  
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cacaacaact acaacaactt gtgctagcaa acctgctgc ctactctcag caacagcagt 180

ttcttccatt caaccaactg gctgcattga actctgctgc ttatttgcaa catcaactac 240  
cattcatcca gctatctgct gactaccctc agcaattact ttcattcaac caactggcag 300  
tattgaactc tgctgcttat ttacaacaac agcatctacc accattcagt cagctagctg 360  
atgtgagccc tgctgacttc ttgacacagc aacagtgggt gtcaatctac tcgcacgctg 420  
atcctaacgc tggc 434

<210> 9895  
<211> 427  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-F3

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cttgaagggtg ccattttcaa ccggagaacg ttcccagtgg ttgcgcacgcg atgagtcgct 180  
gcattgcata tcgatgctgg gctgcacat gtctgacata acgtcagggg ccacctttaa 240  
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gcaaaagacg acgacaggct ttcacaaaga agtttttttt ccgtcataca tgtaggtct 360  
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tgtagt 427

<210> 9896  
<211> 437  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-037-Q1-K1-E1

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cattacgtac aagcatatta aggacagatt ccgtgaccgg ctattgcttg aaggtaattt 180



ccaatgccaa ctttgggaaa gaagagccat aagtttcacg atgctgatga agatgtagca 240  
 cggtacagaa gattgnngcc agaatgcgcc cttcaagtat ctgtgcagac cgaaatcggc 300  
 gtcaaacagc ttaaggaaag agtgcattgag ctgctgacct ctcagatggc tcggatccaa 360  
 tctagcaagg cggagcatga aacacatgaa gtagcgacta gtgttggtta ctgaagtttg 420  
 acaataataa ggattcgc 437

<210> 9897  
 <211> 373  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-E11

<400> 9897

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 ttcccgccat ttggtcccaa aggggctcct aaaaccccca gtgaactaaa ggatgcctca 240  
 tccttgtgac ggcttaaaaa ccccgctcgt ctacgtgctt tgcagcttt acctttcaaa 300  
 gactaccgtg tctgctggtc tctttcagat tcaaaatatt ctgaaacagc tatgtttata 360  
 aagaaaatgt ttg 373

<210> 9898  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-E12

<400> 9898

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 acactcatat tgatgtcaga tgcagatcc atcagctagc attcagtcct catcacagact 180  
 ccaaagggat tatggatctg acagaattcc tgtcacccaa acatgtaatt ctcgttcatt 240  
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gctactaccc agggaataat gaatccgtct ccattccgac aaccacagaac cttaaaatga 360  
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 agcggaac 428

<210> 9899  
 <211> 334  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-037-Q1-K1-E4  
 <400> 9899

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 ctgcctctggg ccacggacga ccactccctc cacaacgcct tcagcaccta cggcgaggtc 180  
 ctcgagtcca agatcatgct ggatcgggag acgcagaggt cccgcggctt cggcttcgtc 240  
 accttctcca cggacgacgc gatgcggaac gctctcgagg gcatgaacgg caaggagctg 300  
 gacggacagc acatcacgcg taacgaggcc cagt 334

<210> 9900  
 <211> 440  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-037-Q1-K1-E5  
 <400> 9900

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 gccggtccac ctgcgcgcgc cgggtccacct gccaccgccg gtccatgtgc cgccgccggt 240  
 tcacttgccg ccgccaccat gccactaccc tactcaaccg ccccggcctc agcctcatcc 300  
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<210> 9901  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-E6

<400> 9901

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acaacaactt gtgctagcaa accttgctgc ctactctcag caacagcagt ttcttccatt 180
caaccaacta gctgcattga actctgcttc ttatttgcaa caacaacaac taccattcag 240
ccagctacct gctgcctacc cccagcaatt tcttccattc aaccaactgg cagcattgaa 300
ctctcctgct tatttacagc agcaacaact actaccattc agccagctag ctgggtgtgag 360
ccctgctacc ttcttgatac aaccacagtt gttgccgttc taccagcacg ctg'gcgctaa 420
cgctggcacc ctettacaac tg 442

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<210> 9902  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-E8

<400> 9902

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ccatccgcta ccccgacctg ctcatcaagg ccaacgacac catcaagatc gatctggaga 180
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ggaggaacac cgggcgtgta ggtgtgatca agaacaggga gaagcacaag ggcgggcttcg 300
ataccatcca cgtcgaggac tccatggggc accagttcgc caccgcgatg ggcaacgtgt 360
tcaccatcgg caagggcaac aagccgtggg tgagcctgcc caagggcaag ggtatcaagc 420
tcagcatcat cgaggagc 438

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<210> 9903

<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-E9

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gtctgtgagc attaacgagt tactgaaacc tgctgaagga taaagggtact acggcgagac 180  
gtggtcgagg aaggcgccgt gatgatcgcg gtgatttttag aggcgtatac tagaggggga 240  
tacagtcatg gtccatctgc tgctgctcca tccattgaag atcaagctca gtttccaagc 300  
cttgatggcg aagtgaacgt gcgcccagct gctgatgtca ccgagcgttg agttgtctgc 360  
tgctgtcata tttaaattga tgccgacgtt aaatatctgt gccacatgtt aaacggaaca 420  
gataatgatg 430

<210> 9904  
<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-F1

<400> 9904

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caatatgtaa tgcttgtggt gctgcacgga tcatgaatgc tacactgggtg ctgccagaat 180  
tagacacaaa ttcattctgg catgatgaaa gtggccttctg aggtatttat gatgttcccc 240  
acttcatcaa gacactgaaa tatgacgtcc gaattgttat gagcattcct gaaatcacta 300  
caaatggaaa gaccaagaag ctcaaaggcc agcagcttcg gccaccaaga gatgcaccgg 360  
tatcttggtg tgcaactgat gctttggaga cgatgaagaa gtatggagct atatatttaa 420  
gtccattttc acaccgtttg gc 442

<210> 9905  
<211> 426  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-F11

<400> 9905

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tggttggtgt atctgcagcc tctcgtatta agaagagctg tttatgtttg gccacaaatg 180  
ctgtctccgt agatcaatgg gcatttcagt tcaagctttg gtcgaccata aaagatgaga 240  
acattagtcg ttttacatct gataacaagg agaagtttac agggatggct ggtgtggttg 300  
ttactacata taacatgggt gcattcgggt gtaaaaggct tgaagattcg gagaagatca 360  
ttgaagaaat ccgaaacaga gagtggggct tgcttctaata ggatgaggct catgttgctc 420  
ctgcac 426

<210> 9906

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-F12

<400> 9906

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ggtgctggca agtccttggt tgggtgatct gcacctctgc gtattaataa gagctgttta 180  
tgtttgcca caaatgctgt cttcgtagat caatgggcat ttcagttcaa gctttgatcc 240  
accataaaat atgacaacat tattcgtttt acatctgata acaagcagaa atttacatgc 300  
atctctgata tatttattac tacatataac atggttgcat tctgtgttaa aaggtcttaa 360  
tattca 366

<210> 9907

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-D8

<400> 9907

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ctgcttattt gcaacaacaa ctaccattca gccagctagc tgctgcttac ccccaacaat 180  
ttcttccatt caaccaactg gcatcattga actctcctgc ttatttacag cagcaacaac 240  
tactaccatt cagccagcta gctggtgtga gccctgctgc cttcttgaca caacaacagt 300  
tattgccgtt ctacctgcac gctgcgccta acgctggcac cctcttataa ctgcaacaat 360  
tgctgccatt caaccaactt gctatgacaa acccagcagc gttctacaa caaccatc 419

<210> 9908

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-037-Q1-K1-C3

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ccacaatgct cacaacaatt cctctctccg gtgacagccg cgagatttga atacccaact 180  
atacaatcct acaggctaca agaggccatc gcagcaagca tcttacggtc gttagcattg 240  
actgtccaac aaccatatgc cctattgcaa caaccatcct tagtgaatct atatctccaa 300  
agaatcgtag cacaacaact acaacaacaa ttgcttccaa caatcaatca agtagttgca 360  
gcgaaccttg atgcttacct ncagcaacaa caatttcttc cattcaatca actagctggg 420  
gtgaacctg ctgcttactt gc 442

<210> 9909

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-C4

<400> 9909

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acctttccag cccttcaatg ttctataatt agcctggatg caatggacat cagtggacag 120  
gagcacctag atgtgaaaca tgatgtattc aagcagcgaa ttgatgccca tggcaatgtt 180  
attgcgacta ggcaagatgt agttggtggg atgaagatgg aggcacctct acaacatcat 240  
ggtggaagggc ttgaacacaa tgaaacctat tgtggctctt gttatggtgc acaagaatct 300  
gatgatcaat gttgtaacac atgtgaagat gttcgtgaag cctacaggaa aaaaggggtg 360  
ggtgtatcga atccagattt gcttgaccag tgcaaaaggg agggctttct tcaaagtata 420  
aaggacgaa 429

<210> 9910  
<211> 443  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 9910

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tcgggggtggt gcttcttgag atgatgtcag ggcgcaggtc gatggacaag aaccgcccga 180  
acgggggagca caacctgggtg gaatgggcgc gccccctcct aggcgagagg cagcggttct 240  
acaagctaata cgaccctcgc ctggaggggca acttctcggt gaagggcgcg cagaaggcgg 300  
cgcagctagc gcgcgtgtgc ctgagccggg accccaaggg gcggccccctg atgagccagg 360  
tggtggaggt cctgaagccg ctgcagaacc tcaaggacat ggcgagcgcc tntctacttct 420  
tccagacgat gcaggccgag cgg 443

<210> 9911  
<211> 438  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-037-Q1-K1-C7  
<400> 9911

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 gagtcttgga gagtacaggg acaagatccc ggcagagggtt gcatctgaga tcgaggcagc 240  
 catcgctgac ctccgccagg agatggcctc ggatgacatt gagaagatca aggccaagct 300  
 tgaggctgcc aacaaggctg tctcgaagat tggacagcac atgtctggtg gtggctctgg 360  
 cggctcgcag tcaggatctg gacctcaggg tggcggcgac caggcgccgg aggagagta 420  
 tgaggagggtt aagaagtg 438

<210> 9912

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-C8

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 cactcccaaa tactccaagg cacgttatga agagattgtg aaggaagtct catcctacct 180  
 caagaaagtt ggggtacaacc ctgataagat tgcctttggtt cccatttctg gttttgaggg 240  
 tgacaacatg attgagaggt ccaccaacct tgactgggtac aaaggcccaa ccctgcttga 300  
 ggctcttgac cagatcaccc agcccaagag gccttcagac aagcccctgc gtctgcccct 360  
 ccaggatgtg tacaagattg gtggtattgg aactgtaccg gttggtcgtg tggagactgg 420  
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<210> 9913

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-C9

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gccgctgaag gcgccaagg ccgacaagaa ggagtacgac gagacggatc ttgcataatct 180  
 gcagaagaag aaagatgagg aaaaagcact gaaggagctt aaggccaagg cacagaaggg 240  
 cgcgattggg ggctcgggtc tgaagaaaag tggaaagaaa tgagactggg caccctcttc 300  
 caatacctag aggatgataa ggcagctgtc tatctgtgtt gcgcttcact aagtgtgatt 360  
 gtaacagtgg tacctcttgt gttctgtgtt ccgcgatgtt gcagttgggt gcttgatcga 420  
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<210> 9914

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-D1

<400> 9914

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 gtcacatgc tcctataact acccttacta ccccgtaact ctcaccaaca ttgtattcgg 180  
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 tgcatacatt tgcacaaaac atcactgcac aacatctaca acaactcgtg ctagcaaacc 360  
 ttgctgtcta ctctcagcaa cagcaagttc ttccattcaa ccaactacct gcatagaact 420  
 atgctgc 427

<210> 9915

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-D12

<400> 9915

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agtcaccgaa atctggtgcg gctgggtttgt tgagccgaga caatgcaact tagagagtgg 240  
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 ttccgaatgt ctataccctt gtttttttta agatagatgt ggcgtgagggc gtgggggtctt 360  
 gtagtgtagc tgttaccttc ccataccata gagccgggtt cctttttacc tgagactcca 420  
 gtggt 425

<210> 9916  
 <211> 442  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-D2

<400> 9916

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 gattgcgttc gaaaagggag atttggtatt tgtgttcaac ttccactgca acaacagcta 360  
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<210> 9917  
 <211> 259  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-D5

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 atatttcaa accattacca caaacccata ctaaccatca ttaacaacac atacaacctg 180  
 aacattaaca atactactaa caatattact caccttctct catcaatacc aataacaaac 240

caaacaaaaa attctatca

259

<210> 9918

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-D6

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atcgtgatgc tctcctagct atattctgcc agcacctgta cctggacatc atgattacca 180

atgtgggaca taccgtacaa ctagcttctt aactgccgat agttcatgac cagacgtact 240

tgaagcattg cgactcacca cccgagtgcg tagcctaaga gaacatactg accatagctg 300

gcggacattc tcgcgtactg ctcgttccac ggatctgtgc atcctcatgt 350

<210> 9919

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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ggggtggggc atcccgcaca acccgctccc gagctgccgc tggtagctga ccagccggac 240

ctgcggcatc gggccgcgcc tcccgtggcc ggagctgaag aggagatgct gccgggagct 300

ggcggacatc ccggcgtact gccggtgcac ggcgctgagc atcctcatgg acggcgcgat 360

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ggaggtgcag aggggattcg 440

<210> 9920

<211> 443

<212> DNA  
 <213> Zea mays  
  
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 ctcacaagct cctatagctt cctttcttcc cccatacctc tcaccagcgg tgtcttcaat 180  
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 acctttatca cccttggttc tgcaacaacc gtcagcccta ttacagcagt tacctttggt 300  
 gcattcggtg gcacaaaaca tcaaggcaca acaactacaa caacttggtc taggaaacct 360  
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 <213> Zea mays  
  
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 ggcggcgggg gccgggacgg cgtcggcggc ggtgagctgc ggcgaggtga cgtcgtcggc 180  
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 cggggtgctc tcgctcaaca gccgcgcgtc gtcgacggcg gaccggcagg ccacctgcaa 300  
 ctgcctcaag agcatgacgg gccggctcgg cggcggcgtc agcatggcca acgccgcaa 360  
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<210> 9922  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-B11

<400> 9922

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cctccggcct ctccaagacc aagacgcggg aggccgaccg ccgccgacgc cgccgcagca 180  
aggccaagaa gaacaagtcc gtcactgagg ctgatgccc ggacgctgac gggggagctt 240  
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tagagtacgt gccggagaag gccgagcttg acgacctct cctggatgat ttcaaggcca 360  
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<210> 9923

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-B12

<400> 9923

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tcgccgtgtc tgcgccggtg tctgctcggc tcttctccgc ggatgcatcc ggtgaagccg 180  
ccgccacggc cgcagagtcg caggatgact ctttcttcaa ggcacccgc gaaggattag 240  
cctatggaag gttttacagt gtcattgggt gaggcagtcg tcttgagaag aacatattga 300  
aaactgatat tatccatcac cttgacagat gtggattgtc attggatgat gtgaagattg 360  
aatacaacaa gggatatgct ccattggccg ctttgttgag gttttcttcg aaggcaatgt 420  
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<210> 9924

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-B2

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 ttgctgactt cgttcatgga cctgatggcc tcgggaacgt agatcttcct gatcccacta 180  
 tcaagaaagt ggaggaaagt gctaccgact tcttggttga taaggtctcg cgatttcctg 240  
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<210> 9925  
 <211> 439  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-037-Q1-K1-B4  
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 gacttcaaga aggtcattgg tgaggtaag caggcagagt ctgcacctcc tattccgaaa 120  
 aaggctgctc cttctaagga gccaaaggca aaggatgtca agaaggaggc tccaaaggaa 180  
 gcccccaagc caaagggtgt tgaggcacca gcagaagagg aagcaccaaa gccaaagcca 240  
 aagaatcctc ttgacttgct gccaccaagc aagatgggtcc ttgatgactg gaagagggcta 300  
 tactcaaaca caaagactaa cttccgggag gttgccatca aaagtttctg ggacatgtac 360  
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 tcctttgtga ccctgaaca 439

<210> 9926  
 <211> 430  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-037-Q1-K1-B6  
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 ttcatagtgc tcaggacctg cttgatcacg attgacgaat gagatatcga atgctgcata 180  
 tcgtacatta tttttgactg atgcatgtac tcataatgct acaacctttg attgtactgc 240  
 tgaacattct acagatagat cgcattgatac taacgctaac gctccttgte aattctttga 300  
 catgctatcc cgaggatctg ccagactcta tctatataga gatgccactg cattgcgaat 360  
 cctacttgat catggacacc tgatatcatg atcactgtca tactccgtga acatgtgact 420  
 ttatggacaa 430

<210> 9927  
 <211> 439  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-B7

<400> 9927

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 atggtcacgt ttctcgtcgt gtgcctggct ctgtcagctg ccagcgcctc tgcaatgcag 180  
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 atgatgggcg ccggcgggct gtacccttac ggggagtacc tgaggcagcc gcagtgcagc 300  
 ccgctggcgg cggcgccta ctacgccggg tgtgggcaga cgagcgccat gtaccagccg 360  
 ctccggcaac agtgctgcca gcagcagatg aggatgatgg acgtgcagtc cgtcgcgcag 420  
 cagctgcaga tgatgatgc 439

<210> 9928  
 <211> 442  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-B8

<400> 9928

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tgctcacaag ctccatatagc ttcccttctt cccccgtacc tctcaccagc ggcgtcttcg 180  
 gtatgtgaaa acccaattct tcaaccctat aggatccaac aggcaatcgc agctggcatc 240  
 ttacctttat cacccttggt cctccaacaa tcatcagccc tattacagca gttacctttg 300  
 gtgcatttat tggcacaaaa catcagggca caacaactac aacaacttgt gctagcaaac 360  
 cttgctgcct actctcagca acagcagttt cttccattca accaactagc tgcattgaac 420  
 tctgctgctt atttgcaaca ac 442

<210> 9929  
 <211> 390  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-B9

<400> 9929

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 tctttgttgt tggccacctt tatctcgtga tgtttgtgtg catgtgaata ctctgaatgt 180  
 gcatttcgaa gtttgagaag ttacgacgcg ttaaaaaaaaa agcgtgcacc acagcccgtc 240  
 ccgagcgctg cagcacctca cggggatcaa gaagcactac tgccagaagc acagccagaa 300  
 gaaggtcaag tgctacaggt gcaacatgcg ctacgacggt tagtacgact tgaatgcgca 360  
 cgtaagacc tgcagcgacc gcaagtatct 390

<210> 9930  
 <211> 442  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 9930

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 ggatgaactg gaagcggaac ttgaagaact ggaaggagca gagttggaat ctcagcttct 180



ggagcctgtt gcagctcttc ctgtgcatcc agtgcattgc ccaggcaaca agcaaccagc 240  
 tcgccctgct ccacagaaag ctacagctga agatgatgag cttgctgcac tgcaagctga 300  
 aatggcactg tgatcagggtt tccactgaag aggtgaaatg tgtatatgaa ttgcgttatg 360  
 ctgaaagctg agtcaggctt tattgtatct gccatgtgtg tataatcttg gtggatattt 420  
 ggcaaccgtc aaccgaagca gc 442

<210> 9931  
 <211> 430  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-037-Q1-K1-C10  
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 gcaaggactc ccggactttc actttcgaaa agggatgggc cttcccacgc cgagtttact 180  
 tcaatggtga taattgtgtc atgccatctc ctgaaaatta tccatggctg ccgaatgcaa 240  
 gccctctaac aaaaccattg gcactcccat tcttgggtatt ctgggttgcc ttggctgctc 300  
 tgctggctta tgcatgatta gtgggatcaa gaggttttagc aagtttcaag ttgatgtcag 360  
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 agatgaggcg 430

<210> 9932  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-037-Q1-K1-C11  
 <400> 9932

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 tgacctcgac gatgacatgg acgacctgga ctcagatacc gatcttgacc tggaaagcag 180  
 tggggaaatc gtgtatgcta ttgacagca gcgaggcaat gcgtatcatc agtcgtgctc 240

agatcgtttg ttgcgccgca ggttaccgag ataattagag agacaggggg gaggtatctg 300  
ctggagatgc tgctcgtgtc tgatgccgtg atgccccct ttttttcac ctgttatgtt 360  
tggctgttgt ttggttgtgg tgcacctcca gtgttttaca acagtttggc ctttcggaat 420  
tggttgtgc 429

<210> 9933

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-C12

<400> 9933

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ctggccgcgt cgcacgtgag ccacgccgcg gggtagagga tcgcggcgta cgccaggtcg 180  
gcgcccaggc ccacggcgtc catcgcgttc cggggcacgg tgatggggtc gtccccggcg 240  
ccgtccgtgg ctttcttctc gtcgcgcggg cccaacaggg cgagccccgg catcctgaag 300  
ccggacatca cggggcccg catgaacatc ctggcggcgt gggcgcccag cgagatgcac 360  
ccggagtctg cggacgacgt gagcctgcc ttcttcgtgg agtcggggac gtccatgtcg 420  
acgccgc 427

<210> 9934

<211> 238

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-037-Q1-K1-B1

<400> 9934

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cgatccccac cctggccagc gtgcggatgc tgccatgggc caaggccaac atcaacccca 180  
ccggccaggc gtcacgtc tccacggtgg ctgggatggc ctacttcac gncgccga 238

<210> 9935  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-H7

<400> 9935

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ccgccgccgg tgcattctgc acctccggtt cacttgccac ctctgtgca tctcccaccg 180
ccggtccacc tgcgccgcc gggtccacct ccaccgccgg tccatgtgcc gccgccggtt 240
catctgcgcg cgccaccatg ccactaccct actcaaccgc cccggcctca gcctcatccc 300
cagccacacc catgcccgtg ccaacagccg catccaagcc cgtgccagct gcaggaacc 360
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agcccgaagg cgacgcccta ctg 443
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<210> 9936  
 <211> 432  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-H8

<400> 9936

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gcctatggta agcctgggct tgcagcacca atgcctgtgc acatggaatc gaggccggtt 180
gctggtgaaa ggagatgact tgtcatcggc atcatgccat gccatttcag gtttataatc 240
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ccctcaaatt gtagaagatg tacaactgtg gactctagaa ctagggcagt tgtatattca 360
gacgacctct cgggtaattg cactttgttg cagaattgta ctactggact agtaccatct 420
tttaaaactg ag 432
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<210> 9937  
 <211> 426

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-036-Q1-K1-H9  
  
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 aggggatgcg cctggctgcc accgaagccg ctgggagcgg gccagccgta ccggagcagg 180  
 ggggccgcgc ccgtgtgtca ctacgtagcg cacctcagcg cgcgcaccat acaggggatc 240  
 tacgccggag ccagcgcagt gctattagtt gctaaaggca ctgccataca caaatctttc 300  
 cttgtgccat tacttgctct tcaggcacat tgcagcataa tctcatggat caagggtgac 360  
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 gaactg 426

<210> 9938  
 <211> 317  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 9938  
  
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 gcctctcgtc ggcttttccc aggtctgcgc gtggcgcggc gccgcagcaa agctccacgc 180  
 gtgctgtgcc gccacccgnc gtaccggccc ggcccgctgt cagtgtttcg gtcggtgaac 240  
 gacgtctcgc ttgggtatca gcgcgttctt cgaagcgcac gaacgacaaa cgggagaagg 300  
 aagagaactc gtgggga 317

<210> 9939  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-037-Q1-K1-A11

<400> 9939

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ccgtcgaccc gcgagcacc atggcgaagg gaggaggtgg aggccagcgc gagggtagcg 180  
ccctgaagag ggccggcgatc gtcgcagggg ggctcgcgct ggctggggtc accgtggaga 240  
ccgctttcag gcccttaatg ggccgcctcc gcgctgccat ctgcagctcc accgagaccg 300  
cccgcgaccc cgaccaggag gagcctcccg cgcctgcctc tgcggcggag gcggagaagg 360  
cgtccgcacc agaggagcct gccgcggtgg atgagaaagt cgaggagaag gtggtcgagt 420  
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<210> 9940

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-037-Q1-K1-A12

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tgcgcggggc tgcagggctt gtacggcgct ggccgcggcc tgacgacgat gatgggcgcc 180  
ggcgggctgt acccctacgc ggagtacctg aggcagccgc agtgcagccc gctggcggcg 240  
gcgccctact acgccgggtg tgggcagccg agcgccatgt tccagccgct ccggcaacag 300  
tgctgccagc agcagatgag gatgatggac gtgcagtcgg tcgcgcagca gctgcagatg 360  
atgatgcagc ttgagcgtgc cgctgccgnc agcagcagcc tgtacgagcc agctctgatg 420  
c 421

<210> 9941

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-A2

<400> 9941

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gctgctgcct acccccagca atttcttcca ttcaaccaac tggcagcatt gaactctgct 180  
gcttattttac aacagcaaca actaccacca ttcagccagc tagctgatgt gagccctatt 240  
gccttcttga cacagcaaca gttgttgccg ttctacctgc acgctgcgcc taacgctggc 300  
accctcttac aactgcaaca attgctgcca ttcaaccaac ttgctttgac aaaccaaca 360  
gcgttctacc aacaacccat cattgggtggg gccctctttt agattgctta tgagttatag 420  
ttcaataatg aagttttttg gatga 445

<210> 9942  
<211> 442  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-037-Q1-K1-A5  
<400> 9942

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ccaccggtgg gcccagcga ctctctaccc acgacaagaa ggtcgccgcc tgcaagacgg 180  
ccaaagcgcg ccttgaggag aggttcaaga ccggcaagaa caggtgggttc tttaccaagc 240  
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ggttaaaatt ttgttctgtt ta 442

<210> 9943  
<211> 329  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-037-Q1-K1-A6  
<400> 9943

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 agtgctcact tgctcctagt gccattattc cacagttgct cccaccagtt acttcaatgg 180  
 gcttcgaaca tccagccgtg caagcctaca ggctacaact agcgcttgcg gcgagcgcct 240  
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 ttgcaacgca acaacaacaa caacagttt 329

<210> 9944  
 <211> 437  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-A7

<400> 9944

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 ggatctctga tttatcgga aggaatccga caaaggcccg gaggagcaaa ttggattggc 180  
 tcttaatatc gggccgggca ttgacggagc gtaaatttaa caaggaacg gagcggttta 240  
 aaacctccaa ccggctgagt gtgtcaacac accttggccc ttgtaacgtt acttactatt 300  
 agcgcgatgc tccaaccgg accctttgtt gcacctgtaa gcccctacc cgttgtttac 360  
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 attggataaa attaact 437

<210> 9945  
 <211> 441  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-A8

<400> 9945

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 gcatttgga gagcatgtgt cgaatttgat gtcacaaac atagttcaga ccctaggaac 180  
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agccacacta tcgaagcaca cgtgcgatga gcttgacgcc gggtagatgt tggttctaag 300  
 gtttgttttt gaatggattt gtctacattt cattgttggt aaacttcctg ccttttctat 360  
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<210> 9946

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-A9

<400> 9946

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 accatgctct cgcgcaacct cttcggcgtg ccggcggcca ggatggggct gcactacgtg 420  
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<210> 9947

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-H5

<400> 9947

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 ccccgagat cgagctcccc accctcgacg gcaagactca caagatgtac cgcggtggga 180  
 agatctgcct caccgtgcac ttcaagccgc tgtgggcca gaactgccc aggttcggcc 240  
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tcgactcggg catggtgaag cacaaggatg acgaggcggc tccggctgag gcattctgcct 360  
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 gatatcggaa atcaactc 438

<210> 9948

<211> 185

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-G2

<400> 9948

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 tctacacctc cttcacactt ccacataacc ttccccatta acacatcttc tcttaacttc 180  
 ccaac 185

<210> 9949

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-G3

<400> 9949

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 atccccctgc gtgagggcct tccccctatg gtctccgact tccgcaagcg catcttcggc 180  
 gaccaagacg ctactgccac caccggaaac cagcaagggtt aggatgaagg agcgcacatg 240  
 acatggaaat ttttggtggc cctgcttcta gctgcttggc tgctctctcc ttactgacaa 300  
 aagctatggg ccacgtagtt cgttggggaat gtgttactgg aatacctcgg ctgatgctgt 360  
 aatgccattc tttttttccc ctgtattttt tctttctcag ttctctcagt ccttagctat 420  
 aaaaaaaaa agttcagttg aacag 445

<210> 9950

<211> 444

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-036-Q1-K1-G4  
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 cagctggctg cttggggcaaa ggagcttcga gggatggaga gttactgcat caaggagttt 180  
 gctgagggcg ttgaggtcat cccttacaca ttggctgaga atgctgggct caaccaatc 240  
 tccattgtca ccgaactcag gaatcgccat gccagaggtg agaagaacac tggcatcaat 300  
 gtgaggaaag ggcagatcac aaacatcctg gaggagaatg tcgtgcagcc gttgctggtg 360  
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<210> 9951  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-G5  
 <400> 9951

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 ccaaggatga cttggctgtc tacacttcgt tttcgtctgc tccctcgtcc aagtatatca 180  
 acgtagcaag gtggtttaat cacattgatg cgctcgtgag gctgagcgga attactgcag 240  
 agggccaagg tgtgaagggt gaatcgtcag cagttccttc agccccaact ccagatgttg 300  
 ctgaagcaca ggccccagtt gctgaggagg acgacgacga tgatgttgac ctttttggtg 360  
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 gcaagaagaa agaattctggg aagt 444

<210> 9952  
 <211> 342  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-G6

<400> 9952

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agattcaaaa tctcgatcac ttccatccaa ctgctactt cttcaatggc taccactctt 120  
tcaaataataa tttccctgtc tacacaacgt cttcacttgc aaactcctgc aattacctaa 180  
cttaatcacc ttgcatcaaa tacatctttg cgctcctgac gctttaccta ataactccat 240  
acctacaaac cttccaaaca gattcgcaag ctgaatctta aatgaaaact gcccttaatg 300  
ctaacataca gcccatcaca tataatgatt acgaccacga tg 342

<210> 9953

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-G7

<400> 9953

aagaaagaat ctgggaagtc atcagtttta cttgatgtga agccatggga cgatgagagt 60  
gacatggcca agctcgagga agctgttagg agtgtccaga tggaagggtt gctctggggc 120  
gcatccaagc ttgtcccagt tggatatggt atcaagaagc tgcaaatcat gatgaccatc 180  
gtcgacgacc ttgtctctgt cgacactctc attgaggact atctgtgcgc tgagccagtt 240  
aacgagtacg tacagagttg cgacatagtt gccttcaaca agatctaggc gtgactttcg 300  
atcagtcctt cccctggggg gctggcgatg gtgggtggctg ggcaatgcac cagcctaatt 360  
tatccatagc tatatgtctg ctttgtgtgg ccagtgatat tgccgtgagt atttttggat 420  
cctattcgag tcgaatgtac ca 442

<210> 9954

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-G8

<400> 9954

gttaagtatg ttatcagcta tcttttcttg gacactgtac aatacttgga tccggtggga 60

aaagtttgta cctcttatag gtttctatth agtttttttc tgccaatctc ttcaagctaa 120  
 ctcatgtacg tgtatgaatc acattgttat agtagctaac aatgtcagta gtgtaccaat 180  
 caataactgt attgcagtca agaaaatagt aatttccttg actgattttg acatccccat 240  
 ggctttaaca gtttaaaaac tgaaaattga ttctactata tttgtgtttt aaggccttag 300  
 tgtaggcgta caatctacgt cgacgccaaa attaatcac ctctctacat ccatagttga 360  
 tatgaactgg tgagattctt actgatgcac taaatttcaa tcttaggata ctctttaatt 420  
 gatgtatgct ttgcttc 437

<210> 9955  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-G9

<400> 9955

cccacgcggt cgattcttca acccttcctg atccaaccgg gcattcggaa caaggccttc 60  
 tgccctttat cacccttggt cctgcaacaa ccgtcagccc tattacagca gttacctttg 120  
 gtgcatttgt tggcacaaaa catcaaggca caacaactac aacaacttgt gctaggaaac 180  
 cttgctgcct actctcagca acagcagttt cttccattca accaactggc tgcattgaac 240  
 tctgctgctt atttgcaaca acaactacca ttcagtcagc tagctgctgc ctacccccag 300  
 caatttcttc cattcaacca actggcagca ttgaactctg ctgcttattt acaacagcaa 360  
 caactaccac cattcagcca gctagctgat gtgagcccta ttgccttctt gacacagcaa 420  
 cagtt 425

<210> 9956  
 <211> 283  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-H1

<400> 9956

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaat taaaaaaaaa aaaaaacaaa aaaaaaaaaa 60  
 cggaaactta aacaatatga tcccaactta caaacacata catccaactt caaccctctt 120

ctatacctaa acctaaatcc aatcaacttc cccactttta ccaacatcat aactcataaa 180  
accattacct ttctcaactt actacttcat tccacaacat ctccacttat ctccacctat 240  
attcaatact gacaaacacc ctcatcctt cacctttccc aac 283

<210> 9957  
<211> 428  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-036-Q1-K1-H10  
<400> 9957

gggtccaagt gaccaacaac agggtttcag ctttgggcaa aacacatcaa gttggtggaa 60  
ccagccactt ccccagggtg aacagtcacg agtggtcagg ccgcatgcaa cggttgctcc 120  
atttgattta gagaagacta gagaaggcag tgggttcaaa atatttggtt tccaagttga 180  
tacaaccaat ccatcacctg tccaattgag ctctccattg tctgctatcc gagagcatgt 240  
ggtacaaact cgaccatcg caccagtga tgaattgcaa cctgtgcaaa ttgagtgttt 300  
gcctgaggtg tccgtaagca cagctggaac tgcagctgag aacattcagc aagtccagca 360  
aagttcgaaa gatattcaaa gcaagtccca gggcgcttca acaaggagct gtacaaaggt 420  
tcataagc 428

<210> 9958  
<211> 426  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-036-Q1-K1-H11  
<400> 9958

agcgtggatt ccaacccgag gtgccgtgtc tcccaggctc gtggcgaatg ccgttggtga 60  
ccgataccat gtgctcgtcg ggacaggctc cactcagctc tttcaggccg tgctgtacgc 120  
gctctcacct gcaagtgacg gcacacccat gaacgtcgtc tcaccggcac cgtactactc 180  
gtcttaccba tctgtgacca actatctaaa ctctgcgtc taccgttggg ctggtgatgc 240  
caatacattt gatggcgaca catgtattga gctcgtctgc tccccaaaca accctgatgg 300  
tggcctccgg aagcctgtca tcaaatacaa gtctagcaag cctgtttatg acttcgecta 360

ctactggccg cagtacacac ccataccgga ggcagctgcc catgacatca tgctgttcac 420  
cgtctc 426

<210> 9959  
<211> 416  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-036-Q1-K1-H12  
  
<400> 9959

ccctggcttc caacgccgag gtgccggttt ctccacaggc tcgtggggaa tgccgttggg 60  
gacgggtacc atgtgctcgt cgggacaggc tccactcagc tctttcaggc cgtgctgtac 120  
gcgctctcac ctgcaagtga cggcacaccc atgaacgtcg tctaccggc accgtactac 180  
tcgtcttacc catctgtgac caactatcta aactctgcgc tctaccgttg ggctggtgat 240  
gccaatacat ttgatggcga cacatgtatt gagctcgtct gctcccaaaa caaccctgat 300  
ggcggcctcc ggaagcctgt catcaaatcc aagtctagca agcctgttta tgacttcgcc 360  
tactactggc cgcagtacac accatcacc gaggcagctg cccatgacat catgct 416

<210> 9960  
<211> 433  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-036-Q1-K1-H2  
  
<400> 9960

atgttatcag ctatcttttt ttggacactg tacaatactt ggatccggt aaaaaatttt 60  
atacctgtta tacgtttcta tttagttttt ttctgccaat ctcttcaagc taactcatgt 120  
acgtgtatga atcacattgt tatagtagct aacaatgtca gtagtgtacc aatcaataac 180  
tgtattgcag tcaagaaaat agtaatttcc ttgactgatt ttgacatccc catggcttta 240  
acagtttaaa aactgaaaat tgattctact atatttgtgt ttaaggcct tagtgtaggc 300  
gtacaatcta cgtcgacgcc aaaattaaat caccttcta catccatagt tgatattaac 360  
tggtgagatt cttactgatg cactaaattt caatcttagg atactctcta attgatgtat 420  
gcttttcttc aat 433

<210> 9961  
<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-H3

<400> 9961

gactgaatca cggatcattc ggattgcacg ggggtctggt cgtcctgtca gggatgtcgt 60  
cgacatgctg gaagagtata agcggcttgc taaaatctgg ggcaagatga agggctctcaa 120  
gatcccaaag aaaggggaga tgagtgcact gtcccgcaac atgaatgttc agcacatgag 180  
caaggtcctt cctccgcaga tgcttaaaca gattgggtggc atgggcggtc tgcagtctct 240  
gatgaaacag atgggatcga aggagatgag cggaatgttt ggaggcatgg gtggcgagcg 300  
gtaattttac gtctgttttt tgggtgatcg tcgctgtgaa cttgtgatgc taaattgaga 360  
gggttttagtg ctgtgggtctg atcatcgta gagactcaga ggtttccatg aagatcagcc 420  
tgccaacagg cttactgtag ct 442

<210> 9962  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-E7

<400> 9962

cccacgcgtc cgcccacgcg tccggaaaac ccaattcttc aaccctacag gatccaacgt 60  
gcaattgcat caggcatctt acctttatca cccttggtcc tccaacaatc atcagcccta 120  
ttacagcagt tacctttggt gcatttattg gcacaaaaca tcagggcaca acaactcgtg 180  
ctagcaaacc ttgctgccta ctctcagcaa caacagttac ctttggtgca tttgttgga 240  
caaaacatca gggcacaaca actacaacaa ctctgtgctag caaaccttgc tgcctactct 300  
cagcaacaac agtttctgcc attcaaccaa ctagctgcat tgaactctgc tgcttatttg 360  
caacaacaac tagtactacc attcagccag ccagctgctg cctaccccca gcaatttctt 420  
ccattcaacc aactagcagc attg 444

<210> 9963  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-036-Q1-K1-E8  
  
 <400> 9963  
  
 cgtacgcttt ccacaacagc ctggggatga atagagccaa gacatggggg tactgaagag 60  
 agctgcatgc atcatgaacg cacaaccata tgaatctatt ctgagaccga tcctgtgtgc 120  
 acatggcatt gccttgcttg gctattgacc tggcccagta cggactagag ccaccagcat 180  
 cagggcggac gtaccctgat ataacatata tatctgtagt tgcgtatgct gctaccggcg 240  
 gagtccgatt ctgcgccata tgttgctcgc tatatattgg gttgtgcggg attttgtagc 300  
 actgtgggtc gagagatgct cattgggagc gatggacagc tctctgctcg tatttgtcat 360  
 catgatagta tctaacggcg ctgcccgaga ttatgaagca atgctctaac tgtctatgaa 420  
 cacgac 426

<210> 9964  
 <211> 381  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-036-Q1-K1-F1  
  
 <400> 9964  
  
 caactagcaa catagaaagc acaatagtgt accaacaatg gcagccaaaa tatttttgctg 60  
 ccttatgctc cttggtcttt ctgcaagtgt tgctaccgca accattttcc cacaatgctc 120  
 acaagctcct atagcttccc ttcttcccc atacctctca ccagcgggtg cttcaatgtg 180  
 tgaaaaccca attgttcaac cctacaggat ccaacaggca atcgcaacag gcattctacc 240  
 attatcacc ttgttccttc aacaaccgtc agccctatta cagcagttac cttttgggtcc 300  
 atttgggggc caaaaacca tcaagggacc aaccacctac cacaaccttg tgctagcaaa 360  
 ccttggtctg atactctcag c 381

<210> 9965  
 <211> 298  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3059-036-Q1-K1-F11

<400> 9965

cccactcatt ccaaagaaaa taaaaaaatt aaaaaaaaaat ataataaaac caaaaaaaac 60  
cctaccactc aagagcatct caaactttct tacacgtcca tccaacgtca tatctctact 120  
atcatatcac ctaaatacaa ttcactcacc atctttttac aacataccta cttaaaaaac 180  
ctcaacatta cccaacttaa tcactttcca acacattcca ttttctctaa ctaccttaat 240  
accaaaaata ccaccacca tccacctacc taacattttac ccacactaaa tacttaaa 298

<210> 9966

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-036-Q1-K1-F12

<400> 9966

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cccaagaaaa ggaaatctgg taacacgtcg gctgaagggtg aaccgtctca agctgctgtt 120  
gtgcgctatg ctacggttga gtcgccatat cccgcaaagg gaaggctctgc ctcaaagctt 180  
ccagtgtctg cacctggcag ggcagcgctt cctagtgcca ccccgaaatct gaacattggg 240  
atggacattt ggaataacttc tcctgccttg gctgttctctg cagtgcaggg ggaagcgaat 300  
cctgngttgg cgcttgccccg acgtgatagc gttactcaac tggatgaacg tgaattgaag 360  
agggagagggc ggaaacaatc taacaggggag tctgcaagga gatctagggtt acgcaagcag 420  
caagagtgt 429

<210> 9967

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-F2

<400> 9967

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acgagcaccc aaagatgggtg gtccttcaac cagatcgggtt cctgagcgag ctgacgagca 120  
 tgtacgagcg gagcacggag aagggctccg tctgggtcac catgaagcga tcaactctca 180  
 agggcaagggc acagttgcgg aagatggaga ataaggggca ggaggtagag cacaggtgcc 240  
 tcgtccgcgc ctccaatggc aagaagaaca tctccacctc ggtttctcta aaggagtaca 300  
 caaagtttca agcttcatac gcaacagttc ttaaggccca tatgcatgct ctgaagaaaa 360  
 gggagaggaa agacaagaag aagactgcag atgctgagaa ggcaattgag accgcaccca 420  
 agaagcagaa gaaagcatct tca 443

<210> 9968

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-F3

<400> 9968

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 gccgtatctt gacgatgccc catacattca tgagaaatta atcagggaag ttttatcaca 120  
 gtattgtgag tcatggagta gagatgatgc tcaaaggcaa tacattgtag aacttggtat 180  
 accagaagaa tggatgcatg aagctctggc tctttatcac gaatactatg gagataaaca 240  
 ggggtgcactg gagaatttga ttcagtgtgg caactggaag aaagctcaca ctattttcgt 300  
 gacttctgtt gctcattcta tgtttctgtc atctaaccat caggaggtct ggaagatcac 360  
 aagtgccttg gagaaccaca agtatgaaat tgctgactgg gaccttgggtg ccggaatata 420  
 catagacttc tacgttctga aga 443

<210> 9969

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-F4

<400> 9969

ggttggcttc tcctccccct ccggttcggg ttcgggttcg tgagggtctt ccgggttggg 60  
 gttcctgggt gaacggatcg aaatggcggc gtcggatgtt gagtaccgct gcttcgtcgg 120

cggcctcgcc tgggccacgg acgaccactc cctccacaac gccttcagca cctacggcga 180  
 ggctcctcgag tccaagatca tcctcgatcg ggagacgcag aggtcccgcg gcttcgggctt 240  
 cgtcaccttc tccacggagg aggcgatgcg gaacgccatc gagggcatga acggcaagga 300  
 gctggacggc cgcaacatca ccgtcaacga ggcccagtcc cgcggcggcc gtggaagcgg 360  
 cggcggtggg tacggtggtg gccgtggaag cggcggctac ggcggtggcg ggcgccgtga 420  
 tggcggcggc g 431

<210> 9970

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-F5

<400> 9970

catgcatgct tcatcacatt gttgactgca taacgaaaca catcgtcgtc ggatcgggga 60  
 tgatgagttc cgtcgtcgtg gatgctgctg ctaccagcag cagcgagaag aagacgtcgt 120  
 ggccggaggt ggtgggcatg tccatcaagg aggcgacgga gactattctc aaggacatgc 180  
 ccaacgcgta catccagggt ctgcctgttg ggtcgcccgt gacgctggac cttcgccccg 240  
 accgcgtccg tatcttcggt gacaccgtcg ccatgactcc gacagttggg tgatacatac 300  
 caaatgcaat aaacaaaccc tactttttat tttatgtttc cagttaataa taaaccaggc 360  
 cttagcttct tggttgtcct tccttgggtg gtgttagctt ctaagctact agtacaccat 420  
 taaaaaaagg aggacctcat gt 442

<210> 9971

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-F7

<400> 9971

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 gcagtttttt ttgtgggtga ttcgtgattt gttgtgttac ctatagtcga cgcaacagga 120  
 gctctggcat ttcgattcat tctgtctagt gaaaggacac tgccatcata tgccgataaa 180

aataacgctt cgtatcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagtaaa aaaga 285

<210> 9972  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-F8

<400> 9972

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 atcctggtga ccagaagaac ccagccaag gtttccaagg gccgtttgat ggcagcaggc 120  
 ccatgtacac gacgaatcag gtcggatgc acgctccacc tctccacac ttccacggag 180  
 ccttccccag gaacgcattc cctcttgagt tcccagcggg gttccgggga gcctggccgt 240  
 ccgtgcaggc acctccgatg ccggcacctg cacatccatc gtctttcccg ccgtttcagt 300  
 tgaggccacc gccaccgtcg cagcaggata tgtctggcgc aggcggcacc aggtggcccg 360  
 gtggcaatca aatctacaac ccttttgac caacggctgc ggcgccggct cagagagcgg 420  
 aggtgaccc tgagtacg 438

<210> 9973  
 <211> 283  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-G1

<400> 9973

tttcgcaaac ctcatctcct agtgggtggct taaaagctt gatgagtacc ttctcactcg 60  
 cagctacatc actggctacc aagcttccaa ggatgacttg gctgtctaca cttcattttc 120  
 atctgctccc tcgtccaagt atatcaacgt aacaagggtg tttaatcaca ttgatgcgct 180  
 cgtgaggctg atcggaatta ctgcataggg ccaagggtg aaggttgaat cgtcagcagt 240  
 tccttcagcc ccaactccat atgttgctga agcacatgcc cca 283

<210> 9974  
 <211> 425  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-G11

<400> 9974

cactcgtaga gagaaggaaa aatatcccca aaccctagct cccgatctcg atggcgaacg 60  
ctcgcgctctt cttcgacatg accgtcggcg gcgccccggc gggccggatc gtgatggagc 120  
tgtacgccaa cgaggtgccc aagaccgcg agaacttccg cgcgctgtgc acgggcgaga 180  
agggcggtggg caagtccggg aagccgctcc actacaaggg ctccaccttc caccgcgtca 240  
tccccgagtt catgtgccag ggcggcgact tcaccgcgcg caacggcacc ggcggcgagt 300  
ccatctacgg cgagaagtgc cccgacgaga agttcgtgcy caagcacacc gcccccggtg 360  
tgctctccat ggccaacgcc gggcccaaca ccaacggctc ccagttcttc atctgcaccg 420  
tcgcy 425

<210> 9975

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-E6

<400> 9975

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caaaatattt tgcttcctta tgctccttgg tctttctgca agtgctgcta ccgcgaccat 120  
tttcccgcaa tgctcacaag ctccatagc ttcccttctt ccccatacc tctcatcagc 180  
ggtgtcttca gtatgtgaaa acccaattct tcaaccctac aggatccaac aggcaatcgc 240  
agcaggcatc ttacctttat cacccttggt cctccaacaa ccgtcatccc tattacagca 300  
gttacctttg gtgcatttgt tggcacaaaa catcaggga caacaactac aacaacttgt 360  
gctagcaaac cttgctgcct actctcagca acagcagttt cttccattca accaactggc 420  
tgcattgaac tctgctgctt attt 444

<210> 9976

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-D12

<400> 9976

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gcctccttat gtccttgggt ctttctgcaa gtgctgctac cgcgaccatt ttcccgcaat 120  
gtcacaagc tcctatagct tcccttcttc ccccgtaact ctcaccagcg gtgtcttcgg 180  
tatgtgaaaa cccaattctt caaccctata ggatccaaca ggcaatcgca gctggcatct 240  
tacctttatc acccttgttc ctccaacaat catcagccct attacagcag ttacctttgg 300  
tgcatttatt ggcacaaaac atcagggcac aacaactaca acaacttgtg ctagcaaacc 360  
ttgctgcta ctctcagcaa cagcagtttc ttccattcaa ccaactagct gcattgaact 420  
ctgctgc 427

<210> 9977

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-D2

<400> 9977

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aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaag gccgcccttt ttaaagatcc caattttact 180  
tccccctcct tccaacttaa tacttttttt ttaggtcccc caaaattaat ttaattgccc 240  
cttttttaaa aacttcttaa ttgaaaaacc cttggctttc ccaaattaaa tccctttgca 300  
aaaaatccct ttttccaac ttggcttaat accaaaaagc cccgaacaaa tcccccttcc 360  
aaaaatttcc ccaccttaat tggcaattgg aacccccctt ttaccggcac ttaaaccctg 420  
gctgttttgg ggtttacccc a 441

<210> 9978

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-D4

<400> 9978

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accaagatat tttccctcct tatgtccctt gctctttctg catgtgttgc taacgcgaca 120  
attttccctc aatgtcaca agctcctata gcttcccttc ttccccata ccttccatca 180  
atgatagctt cagtatgtga aaaccagct cttcaaccct ataggctcca acaagcaatc 240  
gcagcaagca acataccttt atcaccccttg tttcaacaat cgccagccct atctttggtg 300  
cagtcattgg taaaaacat cagggcacag cagctgcagc aactcgtgct acctgtgatc 360  
aaccaagtag ctctggcaaa cctttctccc tactctcagc aacaacaatt tcttccattc 420  
aaccaactgt ctacattg 438

<210> 9979

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-D5

<400> 9979

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gcggaatcta cggcgaggac ggtgaaggat gtcaaccgc acgagttcgt caaggcctac 120  
tccgccacc tcaagcgtc cggcaagatg gagctccctg agtgggttga cattgtgaag 180  
actgcgaggt tcaaggagct tcctccttat gatcctgact ggtactacat cagggctgca 240  
tccattgcaa ggaagatcta cctaaggcaa ggcacgggtg tgggtggctt tcagaagatc 300  
tacggtggcc gccagaggaa tggctccgc ccaccacact tctgcaagag cagtgggtgct 360  
gttgacgca acatcctgca gcagctgcag attatgggca tcacgatgt cgatcccaag 420  
ggtggacgcc tcacc 438

<210> 9980

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-D6

<400> 9980

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 taactgaaga gctaggaatg aaccttgaga atgttgagcc tcacatgctg gggtcatgca 180  
 aaaaggtgac tgtctctaag gatgacactg ttattcttga tggcgctgga gacaaaaagt 240  
 ctattgaaga gagggcagac cagattagat cagcagttga gaacagcact tcagattatg 300  
 acaaggaaaa gctccaggaa cggttgcaa agctctctgg aggtgttgct gttctgaaga 360  
 ttggaggagc cagcgaagca gaagttggtg agaagaagga tagagtgaca gatgcactga 420  
 atgctactaa agctgctggt gaag 444

<210> 9981  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-036-Q1-K1-D9  
 <400> 9981

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 cgcccgctgc cgtcgacgcg tcgttcttgc cggcgcgcgc ccacctccgc cctctcctcc 180  
 tccaggggga tcggatacgc cacaggctgc gcgatggtgc tgtgggtctt cggctacggc 240  
 tccctcatct ggaaccccg cttcgacttc gacgacaaaa tctcggctt catcaagggc 300  
 tacaagcgca cttttaatct cgcttgcat gaccacagag gcacaccgga gcatccggcg 360  
 aggacctgca cgcttgaaac cgacgacgag gccatatgct ggggaattgc atattgtgtc 420  
 aagggtggt 429

<210> 9982  
 <211> 369  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-036-Q1-K1-E1  
 <400> 9982

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 tgggcagcgg acaagaagga gaaggcgctc gcggacagga agaaggcgct cgagagccgc 180  
 aagatcatct tcgcccgcgc caagcagtag gccgaggagt accacgcca ggagaaggag 240  
 cttgtgcagc tcaagcgtga ggcccggttg aagggtgggt tctatgtgag cccagaggcc 300  
 aagcttctgt ttgtggttcg catccgtggt atcaatgcca tgcaccccaa gaccgcaag 360  
 atcttgag 369

<210> 9983

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-E11

<400> 9983

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 tgctcacaag ctctatagc ttctcttctt ccccatacc tctcaccagc gttgtcttca 180  
 gtatgtgaaa acccaattct tcaaccctac aggatccaac aggcaatcac agcaggcatc 240  
 ttacctttat cacccttggt cctccaacaa tcatcagccc tattacatca attacctttg 300  
 gtgcatttat tggcacaaaa catcaggga caacaactac aacaactcgt gctagcaaac 360  
 cttgctgct acgctcagca acagcagtta cctttggtgc aattgttggc acataacatc 420  
 agggcac 427

<210> 9984

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-E12

<400> 9984

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 ttggcaacga cgactggcgc cgccgctgcc agacttcgct gggcatctcg ccggcgacga 120  
 gctcccacca ggattagaga aggtgatggc gaggagtgc agctgcctgg cgcgctggg 180

tgccggagtt gcgatcgggtg ggcggtcg cggagccgtc ggtgcttgtt atggaacttt 240  
 tgaggcattc agatacaaga tccctggatt gctaaagatc agacatatcg ggcaaactac 300  
 tgttggcagc gctgcaatth ttgggctttt cttgggggct gggagcttga ttcactgcgg 360  
 aaaatcctac tagtttgttt cctcctttt tctgaacacg actttgtcga tgtgcttcag 420

<210> 9985

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-E2

<400> 9985

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 cgcgacaaaa ttgatgagcc taattctaaa aggcaaagaa ctagtactg attggaatct 120  
 acttgtgagc tgagaatctt gccagtctt gatttacctc agcggatgat caaataagg 180  
 acttgagaca aatgggtggca gtattgagac aaaaatggat tagctgtggg atatacttgg 240  
 cactgagggc actagacgag gcacctatgc cttttttttt tgagggggcg catcttataa 300  
 gctgttattt ttttagtgca acgagcatac atgctgctgg catccaatcc ccaatatgta 360  
 caagttttta ttcaggttgt gatcatttac gcaacgaatc aaagccttcg ctctgggtcat 420  
 tgccgtagca tacggaggac tg 442

<210> 9986

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-036-Q1-K1-E3

<400> 9986

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 cgtcccgtcc atcagccgcc acaccacaaa caccaccac tctgtctctg cccgcttgc 120  
 ttctctcccc cgctccagct tatggcggag gcggcgccag cagccggcgg cggcatcggg 180  
 gacatcctcg ccacgagcga tcgggacttc ctctccgca actccggcga gcaggatgaag 240  
 atcagcagcg ttgaggcgag cctgtggcc atctacttct ccgcctcatg gtgcccgcga 300

tgcaggaggt tcacgcccaa gcttattgaa gtatacga aaactggcctc acagggcaag 360  
agcttcgagg tcgtctntgc ttcggccgat cgcaatgagg aagctntcaa tgaatactnt 420  
gcaaagatgc catg 434

<210> 9987  
<211> 443  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-036-Q1-K1-E4  
<400> 9987

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cgctacaaag agtgccggtc acttttttat tcacaaatta atgggtgcat atttgtttat 120  
gacctctccc agaggaaaac aaagacaaat ttgaacaagt gggcagtgga ggtttctgaa 180  
tctgggacct tttcagctcc tcttgggtct ggtgggtccc gtggccttcc agttccttac 240  
ctagttattg ccaacaaagt ggatattgct ccaagagatg gtagaagagt gagcagtggg 300  
aatcttggtg atgttgctcg tcaatgggtt gaaaaacaag gtctgcttcc atccagtgaa 360  
gtgcttccac ttgcagataa ctttcctggc aattctgggt tgctcacggc tgccaaagag 420  
gcaagatatg ataaagaagc tct 443

<210> 9988  
<211> 428  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-036-Q1-K1-D11  
<400> 9988

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gccagtactg tactcctcct tttcatctta tacaacacca aaagaatgga tcgaaattcg 120  
taacacatga caacaggatg acaattacaa gtgattaaaa aaagcacaca tgtgaggggg 180  
gaaaaggaag gaaactccgg gaagaggcta cgccaatgat ggaaagatgc actaagctca 240  
ccggcgccgc ctggagacta caggggaact tgtaccagtc tgctgccttc taaaactagg 300  
cgaggacgtt tggacgggag catgctgtgc ttggtaagaa gaatgtgcgg caggctttgg 360

gcctgctggc gcagctgttg gttgaagggt cgactccatg aaacaggcta tgttcaatcg 420  
agtcctct 428

<210> 9989  
<211> 441  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-C1

<400> 9989

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tgcaaaccag caacaacaac aactgcaaca gtttctgcca gcgcttagtc aactagccat 180  
ggtgaaccct gccgcctacc tacaacagca acaactgctt tcatctagcc cgctcgctgt 240  
ggccaatgca cctacatacc tgcaacaaga attgttgcaa cagattgtac cagctctaac 300  
tcagctagct gtggcaaacc ctgttgcta cttgcaacag ctgcttccat tcaaccaact 360  
aactatgtcg aactctgttg cgtacctaca acagcgacaa cagttactta atccattggc 420  
agtggctaac ccattggctg c 441

<210> 9990  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-C11

<400> 9990

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cctgcgcggg gctgcagggc ttgtacggcg ctggcgccgg cctgacgacg atgatgggcg 180  
ccggcggggt gtacccttac gcggagtacc tgaggcagcc gcagtgcagc ccgctggcgg 240  
cggcgccta ctacgcggg tgtgggcaga cgagcgccat gtaccagccg ctccggcaac 300  
agtgtgcca gcagcagatg aggatgatgg acgtgcagtc cgtcgcgag cagctgcaga 360  
tgatgatgca gcttgagcgt gccgctgccg ccagcagcag cctgtacgag ccagctctga 420

tgcagcagca gc

432

<210> 9991

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-036-Q1-K1-C12

<400> 9991

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cgcagaagta tatgtttttg actatagcaa gcacccatct aagcctccac tagatgggtgc 120

atgcaaccct gatttacggc tgaagggaca taattctgaa ggatatggct tatcatggag 180

tatttttaaa gagggacatt tgtaagtgg gtctgacgat gctcaaattt gcttgtggga 240

cattaaagca aatagtagaa acaaaagtct tgacgccttg cagattttta agcatcatga 300

tggtgtcgtt gaagatgttg cttggcactt gaggcattgag tacttatttg ggtcagttgg 360

tgacgattat catcttttga tttgggacct gcggtcnntc cgccctac 408

<210> 9992

<211> 443

<212> DNA

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<223> unsure at all n locations

<223> Clone ID: LIB3059-036-Q1-K1-C2

<400> 9992

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gtcgacaggg gaattaatgg cgctcgtcgtc tagcagcagc caccgccgcc tcatcctcgc 120

agccgccgtc ctgctctccg tgctcgcggc tgccagcgcc agcgccggga cctcctgcgt 180

gccgggggtg gccatcccgc acaaccgct cccgagctgc cgctggtacg tgaccagccg 240

gacctgcggc atcgggccgc gcctcccgtg gccggagctg aagaggagat gctgccggga 300

gctggcggac atcccggcgt actgccggtg cacggcgctg agcatcctca tggacggcgc 360

gatcccgcgc ggcccggacg cgcagctgga gggccgncta gaggacctgc cgggctgccc 420

gcgggaggtg cagaggggat tcc 443

<210> 9993  
 <211> 437  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-036-Q1-K1-C3  
  
 <400> 9993

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 attccagggc acttgccacc agtcatgcc a ttgggtacca tgaacccatg catgcagtac 180  
 tgcgatgatgc aacaggggct tgccagcttg atggcggtgc cgtccctgat gctgcagcaa 240  
 ctgttggcct taccgcttca gacgatgcc a gtgatgatgc cacagatgat gacgcctaac 300  
 atgatgtcac cattgatgat gccgagcatg atgtcaccaa tggctcttgcc gagcatgatg 360  
 tcgcanatga tgatgccaca atgtcactgc gacgccgtct cgcagattat gctgcaacag 420  
 cagttaccat tcaatgt 437

<210> 9994  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-036-Q1-K1-C4  
  
 <400> 9994

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 cggacgcagg gggagtcgac gatgacggag ggagggcggc cgaacagaag attagaagct 180  
 gaatgccgac agataaagtt ggttgatgct ccagtatctg gtggtgtgcg atccggcggtt 240  
 catggacgga gcgaaacccg cggcagcatg ctgctccacc ctgcgtgcgc aggaggcatg 300  
 cttgtgcgtg tacgccaag accccaagtt tgcaaaatac atcaacaacc ccaacaccgc 360  
 caaaaccttt acctcgtgcg gcatagccat ccccaaatgc taagcaagcg ctctgcgtcg 420  
 tcgcttcgct tgctcttget cttg 444

<210> 9995  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-036-Q1-K1-C6  
  
 <400> 9995  
  
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 ggcggtgctg gctgccagcc accgcgcgcg gttcatctac cgccgccggt gcatctgcca 180  
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 cactacccta ctcaaccgcc ccggcctcag cctcatcccc agccacaccc atgcccgtgc 360  
 caacagccgc atccaagccc gtgccagctg cagggaacct gcggcggttg cagcaccgcc 420  
 atcctggggc agtgcgtcga gttt 444

<210> 9996  
 <211> 443  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-036-Q1-K1-C8  
  
 <400> 9996  
  
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 cggtaatcag tgtgacacaa aagagtggga cttcggctctc agtatcgggtt gggaaaagca 180  
 tgattttttg tcaacaaaca atgtcataga agaggtgttc gggaagtgct gtgacactgc 240  
 tgaccaggac cttatctgag ccagacgcgg aggcttcttg tcagctgcga aaactttacg 300  
 gttctctgaa ttgtacagca gtagttggct attttgattt aatgcctcac ttgttcttac 360  
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 taaatccgta gatcatca aaa 443

<210> 9997

<211> 430  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-036-Q1-K1-C9  
  
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 atgacgacct tggcaagcgc tgcgccaagt actacgaggg cggtgcccgc tttgccaagt 240  
 ggcgcgctgt tctcaagatt ggccccaatg agccatcaca gcttgccatc gacctgaacg 300  
 ctcagggtct ggctcgctat gccatcatct gccaggagaa tggctctggtg ccaattgttg 360  
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 ccgtccttgc 430

<210> 9998  
 <211> 405  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-036-Q1-K1-D1  
  
 <400> 9998  
  
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 gaccggatag ttctgaacgc agcattggct gaccactggt taggctgcag cggagccgag 180  
 cacttcaacg ttgcgctaga ccgcgcgagg gaagccatgg atcgcggaga ctctgtgaga 240  
 acgctcgtga gctacataaa gatctgcac agagtcttct aggctagctc tcaccccgagg 300  
 tctcagtgag agatcgacac attgggtctt agagccaaaa ctgggatatc tttttcgagg 360  
 agccagaggg cctttgccac tgcgtgtcgg tgtttacgac ccagc 405

<210> 9999  
 <211> 427  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3059-036-Q1-K1-D10

<400> 9999

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aggaggaggg cggcgagtgt ggaggagagg cgagttcagc tgtagcgttt cttttcttgc 180  
ccgtggcggc tgcggtgcc cctcgaacgc tgctccctgt tctggggctt actgcggatc 240  
ctgatctgag catcattcag agaggaagaa atatgcttag gagaaagcat ggctctgatg 300  
tcaactcaga tgatgctgag caaagagaag cacagattag tgaacttaaa gctgctcttg 360  
agactttgtc tgcccgtggc gagaagtact gcagtgaagc atgcttgaga agatatctgg 420  
aagcccg 427

<210> 10000

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-B9

<400> 10000

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ccttcgacga cgccaacatc gccgacatgt gccgcagggc gcaccgccgg gagtacacgg 180  
tcccgcggtg ggtgtcgcag ccggcgcgcc gcctcgtggc gcgcctgctg gaccgaacc 240  
cggcgacgcg cctcgccgtc gcggagctcg ccggccaccc ctggttcaag cgctcgtca 300  
gcgtggactc ccagctcggc ggctcctgg acggccaggc ggagcgcgag ctggcgttcc 360  
aggccccgcc ggcgctgaac gccttcgaca tcctctccat gtccccaggg ctggacctgt 420  
cgggcctg 428

<210> 10001

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-A3

<400> 10001

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gcctataacc acgacgactg cccctcattg ctacatcct cctataccct gtatgttacc 120

accgtacctt tcaccagcga tgtcttcagc ctgtgaaacc ccaattcttg agccctacag 180

gatccaacag gcggtcacat gccgcatctt acctgtatca ccctcgaacg tacaactgtc 240

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gcagctactg catctcgggc taccaaacct tgctgactac gctcaacatc agcagttacc 360

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<210> 10002

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-036-Q1-K1-A4

<400> 10002

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aanaaggaag gcccgaagtc cctgttcaag ggtgctggtg ctaacattct tcgtgccatt 120

gctggcgctg gtgtgctttc tggctacgac cagctccaga tctcttctt cggaagaag 180

tacggctccg gcggtgctta aatggagaaa aatgatgacg aacaagagca gtctgctccc 240

ggccagccc agtcaggatc tggcaagtt tttgccttcc atatcgaaga aattaataat 300

ttatgtagga gaatttttcc aacattcggt ttgggcggag acattgatct caaaacactc 360

gtaactgtcc tactaggtgg tggcatgggt ccccaaaaca tggcatagg gtgtgtctag 420

tctgcccttc gttgcagccg ggc 443

<210> 10003

<211> 440

<212> DNA

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<223> Clone ID: LIB3059-036-Q1-K1-A5

<400> 10003

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tcaaggagcc agagagggac cgcaagaagg tcaagaacat caagcacagc ggcaacatca 180  
gcctcgacga cgtcatcgag atcgccagga ccatgaggca cagggtccatg gccaaggaat 240  
tggccggcac cgtcaaggag atcctcggta cctgcgtcag cgtcgggtgc accgtcgacg 300  
gcaaggaccc caaggacctg cagcaggaga ttgacgacgg cgagggtggag atcccgctccg 360  
cttaagaagg attggtgtcc aggactgtgt tatctttgct gctgaagcca ttctctgcct 420  
agattttctc atattttattt 440

<210> 10004  
<211> 444  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-036-Q1-K1-A8  
<400> 10004

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atagcttccc ttcttcccc gtacctctca ccagcgggtgt cttegggtatg tgaaaaccca 120  
attcttcaac cctataggat ccaacaggca atcgagctg gcattctacc tttatcacc 180  
ttgttctcc aacaatcatc agccctatta cagcagttac ctttggtgca tttattggca 240  
caaaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc tgcctactct 300  
cagcaacagc agttttctcc attcaaccaa ctagctgcat tgaactctgc tgcttatttg 360  
caacaacaac taccattcag ccagctagct gctgcctacc cccaacaatt tcttccattc 420  
aaccaactgg catcattgaa ctct 444

<210> 10005  
<211> 434  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 10005

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 tatcaaggaa gatccatcct tgaagccaat tcttgatgaa atagagaatg ggggtccatc 180  
 tgcaatgggtg aagtattgga atgaccctga gggtcttcaa aagattggcc aggcaatggg 240  
 tgttaacctt cccggagatt ctagtgtgtc cactgtgtc tctggaccg aagagactga 300  
 ngaggaagga ggggatgacg atgagtccat tgttcatcac actgcaagtg ttggtgatga 360  
 agagggtttg aagaaagctt tagaagggtgg agcagacaag gatgaagaag atgccgaggg 420  
 aagacgggca ttac 434

<210> 10006

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-B1

<400> 10006

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 gctgccttgc tcctcttgc aaggctcatca atgacaagtt cggatcgtt gagggctctga 120  
 tgaccactgt ccatgccatc actgctaccc agaagactgt tgatggggcc tcactaagg 180  
 actggagggg tggaagggt gctagtttca acatcattcc cagcagcact ggagctgcta 240  
 aggctgttgg caaagtgcct cctgtcctta acggaaagtt gactggaatg tctttccgtg 300  
 tcccaaccgt cgatgtttct gttgttgatt tgactgttag gcttgaaaag tcagcaacct 360  
 atgatgagat caaggctgcg gtc 383

<210> 10007

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-B11

<400> 10007

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ccgcgtgctc atgtccgcgg cgctatcgac ggagctccgc cacaagtaca atgtgcgttc 180  
catcccgate cgcaaggacg acgaggtgca ggtcgtgcgc ggcacctaca agggccgtga 240  
gggcaaagtg gtgcaggtgt accgccgtcg ctgggtcatc cacgttgagc ggatcacccg 300  
cgagaagggtg aacggctcca ccgtgaacgt gggcatccac cttccaagg tcatggttac 360  
aaagctgaag cttgacaagg accgcaaggc gtcctcgac cgcaaggccc ggggccgcg 419

<210> 10008  
<211> 427  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-B12

<400> 10008

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gggcctggag gaagaagacc cttgttcgt cctactcttg aacgaactga agaacctcat 120  
gctgatacag atatatcagc tgttgatgcc tccacagttc aggacaaagg ggggccacca 180  
gcagagcaag aaacttctgg aattttacct gtgttacagc ctttgagtcg taaacggctt 240  
atcacatctt cacagacggt agacagtgcc tcgcaggtg aggctaata tgtcaatcct 300  
ccatctaaga agcccaagga ggaagaatct tcacaaggga ctagtgaact caaaagtgg 360  
caaccacctc ttggggatgt agcggcacag gtaaagtgtc ttccagccac tgatgacct 420  
gatggac 427

<210> 10009  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-B4

<400> 10009

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accaagctca tacatctgaa ttgactagtc aaactcagtg atctctttgg ggactaatca 180  
aactcaagaa ctaagtttca tgtctgatct cgacgtccag cttccatctg cttttgatcc 240

gtttgcagag gcaaattgctg aggactccag tgctgggtgct ggatcaaagg actatgtgca 300  
 cgtgcgtatt cagcagcgca acggaaggaa gagtctgaca actgttcagg gcttgaagaa 360  
 agagtacagc tacaacaaga tcctcaagga tctcaaaaaa gagttctgct gcaatggtag 420  
 tgtagtccag gatccagagc tagg 444

<210> 10010  
 <211> 438  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-036-Q1-K1-B5  
 <400> 10010

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 tacatgtctt gatggagcta catttcctca tgtcctacat gcccaactcc aaccttgctg 120  
 acatctatag ctctctcaag acctgcccga gtcctcagtt agagcgccctc tttctgcaga 180  
 tcccaacaaa caccggtgat gcattcacgg ataacttctt gaaggtgcag gagtagcacc 240  
 cgccaaaagg tggattataa aaccttctat tagacaagct gacaaatttc aatgagcacc 300  
 ctaatgagat gcagctagta ccattgctgc taatacagtc tattagactg aagaaactat 360  
 ttctgattgc taccaaggag gatcaccctc aaggactgag caaggttcat tcatatatgc 420  
 tgtctgattt tcataaaa 438

<210> 10011  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-036-Q1-K1-B7  
 <400> 10011

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 ctggggcgggt atacgcagga ccagctggag gtggggcgacg tcctggagca gcacggcctc 120  
 aagtccgtct tcgccttcga ccctgcgcgc cgcaaacgcg gcgtcgccat ccgcttcaac 180  
 cctcgcaacg gccgctccct cctcccctac gccctggtt ccacgatctt cctagacggc 240  
 gagcccaagg attctttgct gaagcccatc acgaagatgg tgattggggg cgccgctatg 300

actgtggtag ctgcagtcct attgaaggag gccaaagatgc ccgagtggct tcagtcaccc 360  
aagctgggag ccgtgagctt cccaccatgg gtgctggctt gcatggatcat cgtgttcatg 420  
aggctccgga agagaacccat ggat 444

<210> 10012  
<211> 443  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-036-Q1-K1-A2  
<400> 10012

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ccgacacgct cggcgactgc ccgttctcgc agagggtgct gtcacgctg gaggagaaga 120  
aggcccccta cgaggtgaag ctcgctgacc tcgacaacaa gcccgaaatgg tttctgaaga 180  
tcagcccaga gggtaagggtg cctgtgttca acgggtggta tggcaaatgc attgctgatt 240  
ctgatgtaat caccctaaacc attgaggaga agttcccaac tccatctctg gtcactcctg 300  
tagaatatgc atcagtggga tcaaagattt tcccagcctt catcacattc ttgaagagca 360  
aggatgctag tgatgggtcc gagaaggcgc ttctggatga gctgcaggca ctggatgagc 420  
atctcaaagc tcatggcccc tac 443

<210> 10013  
<211> 355  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-035-Q1-K1-G6  
<400> 10013

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tggcgccggt tgccggctgc ggcgggtcgc accccccggc gcggtggtg tcgctgcccg 120  
ggctggccta cttcaacgac cccgccacca gcctcagggc gctggagagg gtgagcgacg 180  
ccgctgacag gaaggcgtgc ctggacgact gcgcctgcgc ggcggcgagc ttcgtctacg 240  
gcaccgacgc cggcgacggc ttctgctacc tgcagtcgga ggtgctgtcg ctggaaacgt 300  
cgcggccgga ggtggtgcac tacaactnca ccatgcatct caaggtgcgg gccac 355

<210> 10014  
<211> 412  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-G9

<400> 10014

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aatgctgaag acgagaagaa agatgtccca agtgcaggga agactgagga agttgacgat 120  
aagaaagatg ctgaaaatgt ggagatgaaa gatgctgcag agaagactga ggaagttgac 180  
gataagaaag aggaagcccc tactgtagat gcagcagaga atactgtgga aggtgatgat 240  
aagaaagagg agccccctgc agagaagact gatgagaaag aggaagcccc agctgtagat 300  
gcagcagaga agaatgagga aggtgatgat aagaaagagg aggagccctc tgcagagaag 360  
aagactgttg agaaagaggt ggtccctgct gtagatgcag cagagaatac tg 412

<210> 10015  
<211> 112  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-035-Q1-K1-H1

<400> 10015

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aaataaaaag gaagaaacaa aataaaataa agaaaagaaa aataacaaat aa 112

<210> 10016  
<211> 316  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-H10

<400> 10016

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aacgacgaga ctacttatcg ctagtctccc ataccattgg attacgggaa gatcatatga 120



aggcaattag aatggacgaa cagagcagca tatgtagccc atctacaatg caagaagact 180  
 ggaaacgctc cgatagtaac gggaactcat gtaccagatc attgtcctga tgcacatct 240  
 gtttgcctcc atcaatatgg agatgctgct cgattgctcc tcatggagtt gttttcctta 300  
 gaccatattg aaaatg 316

<210> 10017

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-H11

<400> 10017

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 acaacaacta ccattcagcc agctacctgt tgcctacccc cagcaatttc ttccattcaa 180  
 ccaactggca gcattgaact ctcttgctta ttacagcag caacaactac taccattcag 240  
 ccagctagct ggtgtgagcc ctgctacctt cttgacacaa ccacagtgtg tgccgttcta 300  
 ccagcacgct ggcctaacg ctggcacccct cttacaactg caacaattgc tgccattcaa 360  
 ccaacttgct ttgacaaaacc tagcagtgtt ctaccaacaa cccatcattg gtgg 414

<210> 10018

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-H12

<400> 10018

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 agataccgtc tggatgggtc caagattatc aagattttct tggacccaaa ggagaggaac 180  
 aacactgaat acaagctgga gacctgcact gcggtctacc gcaggctgtg tgggaaagat 240  
 gtgggtctttg agtaccctat gaccgaaaat gcataaatat gatgccctct ggatatctcc 300  
 actctatttc gttgattctg aatggttatgt tgggtctccc tatgtacttc aaaaaacata 360

gttttgatgc taaagttgcc taggaatttg gtacggtgaa gtggcagtgg acgtgaacaa 420  
tgттааg 427

<210> 10019  
<211> 444  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-035-Q1-K1-H3

<400> 10019

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agagactgag gaggaaggag gggatgacga tgagtcatt gttcatcaca ctgcaagtgt 120  
tggtgatgaa gagggtttga agaaagcttt agaagggtga gcagacaagg atgaagaaga 180  
tgccgagggga agacgggctt tacattttgc atgtggctat ggtgagttga agtgtgcaga 240  
aattctcctt gaggcggagg ccgcagttga tgccctagat aagaacaaga aactccgtt 300  
gcactatgct gctgggtatg gtcggaaagg aatgtgtgga tcttctgttg aagtatggtg 360  
ctgtgtcac gctccagaat ctggacggga aaaccncat cgaggttgcc aaactcaaca 420  
gtcaagatga ggttctcaag ttgc 444

<210> 10020  
<211> 331  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-H4

<400> 10020

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tcaaacgcag gttctttccc ggcaatgacc caaacgtcg gcactctcgg cccaagtgc 120  
cgctccgtcg acacgatctc cggctgctc aaggccggca tgtccgtcgc ccggttcgat 180  
ttctcgtggg gggacgccac gtaccaccag gagacgctgg agaacctcaa gctctccatc 240  
aagtccacca acaagctatg cgctgtaatg ctctacaccg tgggcccgga actgcagggtg 300  
gtgaacaaga gcgagacccc gatctccctc g 331

<210> 10021  
 <211> 401  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-035-Q1-K1-H5  
  
 <400> 10021  
  
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 tttaccgtag tgtacacaag ctattatagc atcagttcta tgcacgcgta catatgacca 180  
 ggcagcgctt gtgtatgatg gcacccatgt actactgcgt atgcgatcca acacgcaatg 240  
 gctactggac atataccgct atcagcttag gctctacgac aatcatggtg cttacgacag 300  
 agactacctt tgctgcattg attgactcca aatataccag gcacaacaac tacgacaaca 360  
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<210> 10022  
 <211> 481  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-035-Q1-K1-H6  
  
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 gcccatcagg gcagcgacct tggagagccg tctccaatgg cgctactccg agcgctccgg 120  
 cgagcccttc cggcgtcttc ctgcgcggcg gcggttcttc cccgtcgcgc cccgcaccca 180  
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 gccgcgcgcg ccaccgcgtc gcaggcgccg cccatggggg ccacctgtt cggcggggtc 300  
 atggacaccc ggttcccga ggcgcggccg ggcttcgcca accgccgga gagggctagc 360  
 ttgcgcccc aaggtccgta ctactgggtg aagtgaagc ctgacgagcc cataccagtt 420  
 agtcagccga accaggggag cgtacgaggg aggaaggaga agaagcggat caagcagcgc 480  
 a 481

<210> 10023  
 <211> 439

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-035-Q1-K1-H7  
  
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 gtgatgtcgt ttcagcctca ccaaccaagg cctcagctgc tatcgttctc caggccgaga 180  
 aggacttgca gccttggatt gctagagacg acgaacaagg ccagaagatg tggagagtca 240  
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 tggtgatact cgctagtgtc tctgaccttc tacttcgtgc tactgatgga atgcttggtg 360  
 acggtgaagc ttgtactttg ccacagcttg agcttctcga agtaaccgct cgagcagtcc 420  
 atcttattat tgaatgggg 439

<210> 10024  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-036-Q1-K1-A1  
  
 <400> 10024  
  
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 gaataaacgt aattggttag ctagaaggaa agcggagatg cttcagcttc caaaatttca 180  
 tgtgtcgaga acaaggctta tcatctacaa tttgcctaag actatgacca ttaatgacgt 240  
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 gaaggtgaat atcctgaaga atgaaaagaa aggcatacag aagcattcac gcggtgtagc 360  
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 tcctgaaact ttt 433

<210> 10025  
 <211> 430  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-A12

<400> 10025

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ttgggggctcg tctgatgcta ttgcaattgc taccacacct cttctgatg atctccgtta 120

tttgaaatca tcagccctgg atatttggtt acttggtat gaatttccag aaacaataat 180

tgttttcatg cacaagcaaa tacatgtttt aagcagtcag aagaaaggaa atcttattgg 240

gaccctcaag aaggctgcaa acgaggtgtg tgggtgtgac attgtgttgc atgtgaaaac 300

caagaatagt gatgggtgctg acttgatgga tgacatagt catgctgctc gtaatcaatc 360

aaaatcagat aagccagttg ttggacacat agccaaagag gcacctgagg gtaagcttct 420

tgaaacatgg 430

<210> 10026

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-G5

<400> 10026

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aatcgagtca gatcctgtcc gaatccgagc taagggatgg caaccggtag tgaagcctcg 120

aaggcagctg aggctgtggt tgactggcat aaacacgaca gcaagaggat gctccatgcg 180

gtttaccgtg ttggggatct ggaccgcaca atcaagtact acacggaatg ctttgggatg 240

aaactgctga ggaaaaggga tgttcctgat gagaagtaca ccaatgcctt ccttggcttt 300

gggccagaga acaccaactt tgcagttgaa ttgacatata actatggcgt tgaccagtat 360

gacaattgga ccgggctttg ggcatttcgc aattgctaata gatgatgtgt acaagtttagc 420

tgagaatatc aaatccaagg gtggttaagat caccgcgcg 458

<210> 10027

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-F12

<400> 10027

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gctgcacaac caactgcctt gtcctcttg ctaaggatcat caatgacaag ttcggtatcg 180  
ttgaggggtct gatgaccact gtccatgcca tcaactgctac ccagaagact gttgatgggc 240  
cctcatctaa ggactggagg ggtggaaggg ctgctagttt caacatcatt cccagcagca 300  
ctggagctgc taaggctgtt ggcaaagtgc ttcctgtcct taacggaaag ttgactggaa 360  
tgtctttccg tgtccaacc gtcgatgttt ctgttgatga tttgactgtt a 411

<210> 10028

<211> 117

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-F2

<400> 10028

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tgtaccattg atggtttacc gttgcatttg gtagcggaca tatcatttga gtttctg 117

<210> 10029

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-F3

<400> 10029

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agccctcagg ataaccgaaa tggccaggct gtataaagtg tgcacacctga cataactcgtg 180  
aatgtcagat ctaagatgta agatacgggtg atttaagacc gacgcattga cagtcgctta 240  
taacgtcacg ac 252

<210> 10030

<211> 397  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-035-Q1-K1-F4  
 <400> 10030  
  
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 cagttttctgc cattcaacca actagctgca ttgaactctg ctgcttattt gcaacaacaa 180  
 caactactac cattcagcca gctagctgct gcctaccacc agcaattgct tccattcaac 240  
 caactggcag cattgaactc tcttgccttat gtacaacaac aactactacc attcagccag 300  
 ctagctgctg agagccctgc tgccttcttg acacagcaac agttgttgcc gttctacctg 360  
 cacgctgcgc ctaacgttgc accctcttac aactgca 397

<210> 10031  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-035-Q1-K1-F5  
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 tgtaatcacc caaaccattg aggagaagtt cccaactcca tctctgggtca ctctgtaga 180  
 atatgcatca gtgggatcaa agattttccc agccttcac acattcttga agagcaagga 240  
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 caaagctcat ggcccctaca tcaacgggga gaacgtatca gcagctgac ttagcctggg 360  
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 aaacct 426

<210> 10032  
 <211> 453  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-F6

<400> 10032

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acgattgcag tttgatgaac aactctctat ggaaaatgtg acgacgctta taacagaggc 120  
tgatggatac cagcctcact tgatagctcc agaacaagga tatagacgcc ttatagaatc 180  
ttgtcttatt agtatcagag gtcctgctga ggcggctgtt gacgcggtcc atgcaattct 240  
caaggacctt gtccgcaagg ctatcaatga aacacatgaa ctgaagcagt ttcccaccct 300  
tcgtgtggaa gtaggcaatg cagcttttga gtcattggat agaatgaggg atgaaagcaa 360  
gaaaaataca ttaaagctag ttgacatgga atgcagctac ttgacagtag atttcttcag 420  
gaagcttcct caggatgttg agaagggtgg aaa 453

<210> 10033

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-F8

<400> 10033

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ggtggacgcc ggctcgaacc cgaactactt cgcgggtgctc atcgagtacg agtccgggga 120  
cggcgagctg gagtccgtgg agctcatgca gcgcggcgcc ggcggcgggg gggcgtgggc 180  
gccgatgcag cagtcgtggg gcgcgggtgtg gcggtacaac tccggcgaca ccctgcaggc 240  
gcccttctcc gtccgcctca cctccggctc cggcaggacg gtcgtcgcca gcaacgtcat 300  
ccccgcgggg tggacgcccg gcgccacgta ccgctcggtc gtcaacttcg acaactaacg 360  
aggacggacg gacggaccga aattaacgga cgcgc 395

<210> 10034

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-035-Q1-K1-G1

<400> 10034



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gccgcggcaa ccctacagtc gaggtcgacg tgttttgctc agatggaacc tttgcaaggg 120  
cagctgttcc cagtggagca tcaactgggtg tatatgaagc tctggagttg agggatgggtg 180  
gctctgacta tttggggaag ggtgtctcca aggctgtgaa caatgtgaat tctgttattg 240  
gacctgctct gattggcaag gacctacag cacagactga gattgataac ttcattgggtc 300  
aacaacttga tgggacaaaa aatgagtggg gatgggtgaa gcaaaagctt ggtgctaattg 360  
cgattctggc tgtgtcatta gctgtttgca aagctggngc tagcatcaag aggattccct 420  
tataccagca cattgccaac ctagctggga acaag 455

<210> 10035  
<211> 409  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-035-Q1-K1-G10  
<400> 10035

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tcctaccatt ttatctttat gtcattgcga cagtttctct tactcaagca agaattgata 180  
tgagtgagct tgatgaggat tctgatgggt tccttcagcc tcatgaaatg gaagcatata 240  
ttagaggact catccccaat ttggcgcaat tgcgcgatat gccactgca tttgttcaga 300  
tgtactgccg catagctgca cgcaagttct ttttcttctg tgatccacac agacggggga 360  
aagcatgcat aaagaaagtg ttgctgatca attgtcttca ggagctaatt 409

<210> 10036  
<211> 406  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-035-Q1-K1-G11  
<400> 10036

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gccagcagc catggcgccc aaactctctg ctcccatcgt actccttggc gcagtgggag 120

aagctaccat gggcgccacc cgacctgcag cttcgcccttg ccgacgcca gaaattgcag 180  
catcagctcc taccctctct acatggccga cgctcatagc tccagcagac gctcctccat 240  
acttcccatg gcgtactgca tcagacgcct tgaagcaacc acgccatggc ttgcgactcg 300  
gagtcctacc tgcttgcatg ctgatgctca gtgcccattg tgcttgatag gtgctcgacg 360  
aaatgtgagg caaccacgtc ggcttcgtgc actgtcgact cgctgg 406

<210> 10037

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-G12

<400> 10037

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gctccttggt ctttctgcaa gtgctgctac gacgaccatt ttcccgcaat gctcacaagc 120  
tcctatagct tctcttcttc ccccatacct ctcaccagcg ttgtcttcag tatgtgaaaa 180  
ccaattctt caaccctaca ggatccaaca ggcaatcaca gcaggcatct tacctttatc 240  
acccttggtc ctccaacaat catcagccct attacatcaa ttacctttgg tgcatttatt 300  
ggcacaaaac atcagggcac aacaactaca acaactcgtg ctagcaaacc ttgctgccta 360  
cgctcagcaa cagcagttac ctttggtgca attgttggca caaaacatc 409

<210> 10038

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-G2

<400> 10038

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tccacaatgc tcaattgctc cgagtgccat tattccacag ttctccctc cagttacttc 180  
aatgggcttc gaacaccag ctgtgcaagc ctataggcta caacaagcgc ttgcggcgag 240  
cgtcttagaa caaccaattg cccaattaca acaacaatcc ttggcacatc taaccataca 300

aaccatcgca acgcagcagc aacaagcact gagccaccta gccgtggtga accctatcgc 360  
ctacttgcaa caacagctgc ttgcattcaa cccacttgct ttggcaaacg tagctgcatt 420  
accaacacaa cca 433

<210> 10039  
<211> 442  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-035-Q1-K1-G4  
<400> 10039

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tcgtgctacc tgtgatcaac caagtagctc gtggcggaacc tttctcccta ctctcagcaa 120  
caacaatttc ttccattcaa ccaactgtct acactgaacc ctgctgctta tttgcagcaa 180  
caactattac cattcagcca gctagctact gcctactctc agcaacaaca acttcttcca 240  
tttaaccaat tggccgcact gaaccccgct gcttatttgc agcagcaaat actactacca 300  
tttagccagc tagctgcagc aaaccgtgct tccttcttga cacagcaaca gttgctgcct 360  
ttctaccagc agtttgcggc taaccccgca accctcttac aactacaaca attggttggcc 420  
tttgtccaac ttgctttgac ag 442

<210> 10040  
<211> 411  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-035-Q1-K1-F11  
<400> 10040

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gcctacttga gattagcagg aagacctccc gtccttccct taaatactct atcttattca 120  
gagaacttct tgtacatgct ggactctttg ggtgacagaa catataaacc aaatcctcga 180  
cttgctcgag ctctagatat tctttttatt ctgcatgctg aacatgaaat gaactgctcc 240  
actgctgctg ttaggcacct tgcttcaagt ggtgtggatg tatttactgc tctttctggt 300  
ggtgttggag ctctatatgg tcctctgcat ggcggcgcaa acgaggcagt acttaaaatg 360

ttaaatgaga ttggaagcat ggaaaatatt ccagatttca ttgtaggagt g 411

<210> 10041

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-D7

<400> 10041

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tacttcgttc caatctctgg ttttgaaggt gacaacatga ttgagagggt caccaacctt 120  
gactggtaca agggcccaac cctacttgag gctctggact tgatcaatga gccaaagagg 180  
ccttcagaca agccccctgcg tctccccctt caggatgtgt acaagattgg tggatttgga 240  
actgtccctg ttggacgtgt tgagactggt gtcattaagc ctgggtatggg tgttactttt 300  
gggcctactg gtcttactac tgagggttaag tccgttgaga tgcaccatga ggctctccag 360  
gaggcccttc ccggtgacaa tggttggttc aacgtgaaga atgttgctgt gaatgatctg 420  
aagcgtgggt atgt 434

<210> 10042

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-E1

<400> 10042

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tgccagcgct caggcaacta gccatggtga accctggcgg ctacctaaa cagcaacagc 120  
tgctttcatc tagcccgtc gctgtggcca atgcacctac atacctgcag caacaattga 180  
cgcgacagat tgtaccagct ctgactcagc tagatgtggc aaaccctgct gtctacttgc 240  
aacagctgct tacattcaac caactgacta tgtcgaactc tgatgtgtac ctacaacagt 300  
gacgacagtt gcttaatata ctagcaatgg ctaaccatt gg 342

<210> 10043

<211> 411

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-035-Q1-K1-E11  
  
 <400> 10043  
  
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 cgcgttggtg gtcaggcgaa tccggttaag aagcagactg ctgccacgct gagttacata 120  
 cagtcttggg acaagttgca gtcggagata agaaaccgac gtgctttcat ggtcaccgaa 180  
 ggacgcaaca ggaagaagaa gcaggagAAC caaatgaaac ttgaggcaaa actgcataat 240  
 ttgcagattg aatggaatgg aggcctcgat actatggatg aaattcttgc taggatacaa 300  
 caacgggaag aagcagcagt aaagcgtgag cgagccatgg cgtacgcgtt caaccatcag 360  
 tggagagcaa ggtctgccac aagtctagga aacttcagct atgaagtcgg t 411

<210> 10044  
 <211> 411  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-035-Q1-K1-E12  
  
 <400> 10044  
  
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 ctcaagct cctatagctt ccttcttcc cccgtacctc tcaccagcgg tgtcttcggg 180  
 atgtgaaaac ccaattcttc aaccctatag gatccaacag gcaatcgcag ctggcatctt 240  
 acctttatca cccttggtcc tccaacaatc atcagcccta ttacagcagt tacctttggg 300  
 gcatttattg gcacaaaaca tcagggcaca acaactacaa caacttgtgc tagcaaacct 360  
 tgctgcctac tctcagcaac agcagtttct tccattcaac caactagctg c 411

<210> 10045  
 <211> 427  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-035-Q1-K1-E2  
  
 <400> 10045

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 ggaatgattt ccatcttttg aatactgaaa agctttgtca aatgatggaa atcatttcac 120  
 cactgcaagc tctgtgaaac aagccattga gtatccta atcattttttt tacaatagat 180  
 atattagaac tcgcatctta tttgagagtt atactatctt acttaccagt acagttcctt 240  
 aactgggtgc tgcagacctc ttaaaaaatg tggggtcagt gatggagaga tatgcatgat 300  
 agcaaacatt gtgcctgaga ccgttgaaga ggtttacgca ctaatgccat ctctcaaggc 360  
 taataggtca gctatcgaaa gttcagtcac cgaggttctt accgtcctcg caaacatatt 420  
 agcttgc 427

<210> 10046  
 <211> 210  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-035-Q1-K1-E3  
 <400> 10046

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 atgtcaccgt taacgcgcgt aattctgcac tctaagctga tatgctgcta tcgctaacca 180  
 gctcaacacg ctccacggat gaacgatagc 210

<210> 10047  
 <211> 174  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-035-Q1-K1-E4  
 <400> 10047

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 cccataatca gattctgtat gagcaggcac ttaactcatc attggtctta gctggcgaaa 120  
 tcacatgca ccatactcgt atctccattc ttcaagtact tgctcttctt ctta 174

<210> 10048  
 <211> 455

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-035-Q1-K1-E5  
 <400> 10048

cccacgcgtc cgatgactcc aacagcaacc gtctgcctca tgtcacggac agcagaacga 60  
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 accataccgg catcaccatt cttcaggaac ttgggctcct tctcaagctc cttgccagac 180  
 cgcctatcga tcttggttat gagctcagca aacttgacag caatgtggga ggtgtggcag 240  
 tccagcactg tggcatagcc attgccaatc tgcccagggt gggtcatgat gatgacttgg 300  
 gaggtgaagc tagcagccta cttggcaggg tcatccttag agttggaggc cacgtaccca 360  
 cgtttgagat ccttcacagc aacgttcttc acattgaagc caacattgtc accaggaagg 420  
 gccttccgga cgcgtggggc atttacaccg tgtga 455

<210> 10049  
 <211> 417  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-035-Q1-K1-E6  
 <400> 10049

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 tcctatctac actaacttcg tgtgtgatgg atagtagaca tgagcaagat ttaggacagg 180  
 aagagcagtc ttttctgtgg gatctgaatg ctggcttcca acctttgtgg caagagttaa 240  
 gtgattgtat aagtgccaca gaggcaaaac ttgtacacaa ttcatcattc gcttcccatg 300  
 ccccatcggt ggatgcttta gcagttagtg cttcatcatc tgttgcttca ccgcttctc 360  
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<210> 10050  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-035-Q1-K1-E8

<400> 10050

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taatgtcttc aacactgtca tcttgcgagg acgatgagaa ggtatctatc gcatgtgaca 120

caggatgcaa tgccgcgacg tcccgcctca aatgcttcct gatggcctat tctgaaggga 180

aagtgttggt cagcagcaac tgcgaaacgc cgaccagggtg cggctgcgtg tttcgtcaca 240

aacaagatgc agcccttatt gccggcgacg ttggcaacaa aaagggatac tgatggcaga 300

cgtgtacttc ttggttgaat aatactgcta gaattaatat gggcaccaac gaaatatcta 360

taatgttatt cttcagtgtg atgcttccag catgttctgt tttagtataa ctaaatatct 420

atctttcccc ccc 433

<210> 10051

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-035-Q1-K1-E9

<400> 10051

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acctagctgt gcaagcctac aggctacaac aagcgcttgc ggcgagcgtc ttacaacaac 120

caattaacca attgcaacaa caatccttgg cacatctaac catacaaacc atcgcaaacac 180

aacagcaaca acagttccta ccagcactga gccaaactaga tgtggtgaac cctgtcgcct 240

acttgcaaca gcaggtgctt gcatccaacc cacttgctct ggcaaacgta gctgcatacc 300

aacaacaaca acaattgcaa cagtttctgc cagcgctcag tcaactagcc atggtgaacc 360

ctgccgncta cctacaacag caacaactgc tttcatctag ccctctc 407

<210> 10052

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-F1

<400> 10052



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 ccgggtggtg gcctgtcgga agcgactggg gcagcgccgc cgaggacggg ttcattggtcg 180  
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 gcgtcgacgc cgccgcgttc ggcttcggcg acatgctcgc gtcgtacctg cacaaaccgt 300  
 tctgatgcaa cgcgacgcga gcgcgcggcc accccgcgcc tgcgtgctcc tctaggccac 360  
 tgaccactga catggacatt ctggtcgtcg tgtagctcgg ttcaggacga atcgagagcc 420  
 ggccggtcta ggtgtagtgc tgcgaaacca acacca 456

<210> 10053  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-035-Q1-K1-D6  
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 catccaagac agggatcgcc atgtcggact cggaggagca ccacttcgaa tcgaaggccg 120  
 acgtcggggc gtccaagacc taccgcgacg aggctggcac cgtccgtaag aacggcttca 180  
 tcgtcatcaa gaaccgcccc tgcaagggtg tggaggtttc tacctccaag actggtaagc 240  
 atggccacgc caaatgccac tgtgtcgcca tagacatatt caatgggaaa aagcttgaag 300  
 atattgttcc ttcattcacac aactgtgaca ttccgcattg gaaccgcact gagtatcagc 360  
 tgattgatat ttctgaggat ggatttgtga gccttcttac ttcagatggc agcactcagg 420  
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<210> 10054  
 <211> 142  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-035-Q1-K1-C12  
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gatccaacaa caaacattgt ctcacaatgt gattgattgt agaagcaagc ttttgtcaca 120  
 gggcgatggt gctcacttgt gg 142

<210> 10055  
 <211> 384  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-C2

<400> 10055

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 tccctccaca acgccttcag cacctacggc gaggtcctcg agtccaagat catcctcgat 240  
 cgggagacgc agaggtcccg cggcttcggc ttcgtcacct tctccacgga ggaggcgatg 300  
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 gagggccagt cccgcggcgg tcgt 384

<210> 10056  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-C3

<400> 10056

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 ccattcacca gcttatgggt gcacgtagga tggcattgtc atgcactcat gctaaaacga 180  
 tgaagactgt ttaatgtaga cctagatgat ctttgcggat gggagaaaag tgccagtttg 240  
 caaacttata gccagggaaa ggagaagtgg tttaagaaat cgtttggatt caacatattg 300  
 gatttatggt gagaccgtca catgattttt atttgtatgt gggcaactac tcgtgttagc 360  
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<210> 10057

<211> 455  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-035-Q1-K1-C4  
  
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 ctctatagc ttcccttctt ccccggtacc tctcaccagc ggtgtcttcg gtatgtgaaa 180  
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 cacccttggt cctccaacaa tcatcagccc tattacatca gttacctttg gtgcatttat 300  
 tggcacaaaa catcacggca caacaactac aacaacttgt gctagcaaac cttgctgcct 360  
 actctcagca acagcagttt cttccattca accaactagc tgcattgaac tctgcttctt 420  
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 <211> 435  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-035-Q1-K1-C5  
  
 <400> 10058  
  
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 aaatgtcttc tgcagagtga gccagcagat aagggttcttg cagttgttca agaaacctgg 120  
 atggatcctg ccataggcct cacaccttat gatgtccata agcatgttgg gtttctcaag 180  
 catctgatga taagaactgg aagaaacatc agcactggaa ctccagaagt aatgggtcaat 240  
 tttgtgacgt catgttataa gccagatgta ttgatgcctc ttgttgataa aatcacaaaa 300  
 atacctgaag tggttagtgt cataaataat gtgaactcgt ctgttggtaa ttcactctgtg 360  
 ggtgaacaag aatatacttt gtacgggaag ccaaacatta cagatatgtt gagaggactt 420  
 gcgttcaga tatct 435

<210> 10059  
 <211> 432  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-C6

<400> 10059

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ggacggggcgc aacttggtat atatctaggg atgggatgtc gtttgccatg tactccattt 120  
tgaaagtgtc caagtgagac ttatatacata tatgcagttg agagatggaa ttaataataa 180  
gagcaaacgc aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaat aacaaaatac 240  
aaaaagataa aaaaaaaaga ggacatctct gataaagaaa caaaaagaac atgaaaatgc 300  
aaaaaaaaaa gggggggggc cccaattttt ccttatcttt tcctttggga aacggggccc 360  
cccccccttg gggcaccaa atttttgatt tgggcccccc caaaattttt tggaaagccc 420  
ccttttgggg gc 432

<210> 10060

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-C7

<400> 10060

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cagccagcta cctgttgctt acccccagca atttcttcca ttcaaccaac tggcagcatt 120  
gaactctcct gcttatctac agcagcaaca actactacca ttcagccage tagctggtgt 180  
gagccctgct accttcttga cacaaccaca gttgttgccg ttctaccage acgctgcgcc 240  
taacgctggc acctctttac aactgcaaca attgctgcca ttcaaccaac ttgctttgac 300  
aaacctagca gtgttctacc aacaacccat cattggtggt gccctctttt agatttctta 360  
tgagttatag ttcaataata aaagtttttg tctgatgttt gtggcttccc agaaataaga 420  
aagtacattt ctagattc 438

<210> 10061

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-C9

<400> 10061

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ggccccgggt cgctgctgct cacctcgggc cccgcgcaca agcgctcca ctcgctcacg 180  
ctgaccgcgc tcggccgcgc gccctcgcgc ccgctgctgg cgcacatcga ccgcctcgtc 240  
ctcgccacca tgccggggctg ggaccgcccc ggccgcgtgc gcctcctcga cgaggccaag 300  
aagatcacct tcaacctcac cgtgtggcag ctcgtcagca tcgagcccg gccgtggacc 360  
gagagcgtcc ggccgcgagta cgtgaagctc gtcgacggct tcttctcca 409

<210> 10062

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-035-Q1-K1-D1

<400> 10062

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gctctctaag gaggtcgggt ggaactacca tgacaccatc aggggaactg aggagaagag 180  
gaaggagaag gccaaagttg cctacgagag gaagaagcaa ttggccaagc tgcgtgtcaa 240  
ggccgagaag gcagccgagg agaagttggg gtctcagttg gagattcttg cccctatcaa 300  
gtactgaaga gctgtgcttt gtcacagtt ttggggaaca tctagtcttt gttttaagtg 360  
ttcggttaaca gtttgtgaca gtataatctg gtaaaccgtg ttattnttct gccactccta 420  
tttgaacaca ttttct 436

<210> 10063

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-D10

<400> 10063

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catgtcggcc tactgcggaa agtacaagga tgagtcacac aagaatgctg cctacattgg 120  
caccctggc aagggtatcc ttgctgctga tgagtccact ggcaccattg gcaagcgcc 180  
ttccagcatc aatgtcgaga acgttgagga gaaccgccc gccctccgtg agctcctatt 240  
ctgctgccct ggtgctctcc agtacatcag cgggtgtgat ctcttcgagg agaccctgta 300  
ccagaagacc aacgatggca agccttttgt tgatgtcctc aaggagggag gcgtgctccc 360  
tggcatcaag gttgacaagg gcacca 386

<210> 10064  
<211> 407  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-035-Q1-K1-D11  
<400> 10064

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atgtgctctt agcatgtttg caatgaatat actggaattc ataccatttt agttgtgtca 120  
tgctacaggg ccatttttgt acttttcctc atggagcatc tagcaatcac agccggctat 180  
gtgttcaaca tcaaagggtg tctcgcagct ccaccagaa ctatgctctt tctaggaagg 240  
atTTTTctcc tataactcaa gatgtggaag gcttccttca caatgttggt aacatggggt 300  
ttcttgaccg tctgaaatta gcgtggaaga taatgttttc tgcaccaacc acaaaggata 360  
cctccaatgc aaacatcgca naacagaggc ttaagatgat cctgttc 407

<210> 10065  
<211> 402  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-035-Q1-K1-D12  
<400> 10065

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tggtggagga tgcacccttt tgcggcttgc agctaaagtc gatgccatca aggatacact 120

ggagaacgat gagcagaagg ttggagctga aatagtaagg agggccctga gctacccact 180  
 taaattgatt gctaaaaatg ccggtgtcaa tggcagcgtc gtcactgaga aggtcctttc 240  
 taacgataac ttcaagtatg gttacaatgc tgctactgga cagtacgagg acttgatggc 300  
 tgctgggtatc attgatccta ctaagggtggg gagatgctgt ttggagcatg ccgcgctcggg 360  
 ggccaagacc ttcttgacat ctgatgttgt ggtcgtcgat at 402

<210> 10066

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-D2

<400> 10066

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 gctgagaaaag cttcgaatgt tgtttctgat ggaagagagg agcataagtt aaaagtgcc 120  
 acatcagaaa cttcaaatgt ggtttatgat ccaagtccaa gggatgggca gaacttagat 180  
 tcatcaccga cagctgtacc tttggctggt acaatgaata aaaaagagca tgtgattgat 240  
 atggaaaagg ctgataatgt tgttgaggac caactgcac ctccgcagcc aatggcactg 300  
 cggactgaaa aagtcactgt caatcccagt gtacgtacaa gaaggggaag agtaccttca 360  
 gttgaaaagg tggaatcgac gactactgtc aagtcctttt ccattgcac cttcaacaa 420  
 tataccaata gtttcagtga ggaaaatatc at 452

<210> 10067

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-D3

<400> 10067

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 ggtaaatctt cttcaaatgt tgcactgat actcataaat gagcatcaga taaaaacgcc 120  
 aacatcacta cacttctaaa tgtaacttat catccaagtc caacgctatc tcactactta 180  
 gattcatcac ctaccgatcc acttttgcca ggtacaatta ataacacata gcacgtaatt 240

tatatatcca aacctgatta ttacgacgtc taccaactga atactcctca tacaccgac 299

<210> 10068

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-D4

<400> 10068

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tgaaaagcag attgagatga tcaccaagca aggggttatgc agcctccgca tttgcatggc 120

gaagactcag aactcattct cacatgtacc gtacatgaag ggcgctccga ccaggctgtg 180

ctatgtcgat aagagacgtg agggccaaca tcggcgctgg gcacatctac ccgatcgatg 240

ggcaccatga gcacgatgcc tggccttctg accagaccat gcgtttacca gatcgacgtc 300

gacactggca tcgggaaggt catggggctg tcatgaattg aacgacgtga tggatatcatt 360

cagagaacgt atattcgggtg gcatccctgg atcgagt 397

<210> 10069

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-D5

<400> 10069

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cttatgatca gaataattca tcagcaccag ctcatcatgt ttaagcggcg aatcccatgt 120

ttggactctt acctagacaa agttaatatg tcaactctggc ctgcgttcaa gatgggtgttc 180

gacttgcatt tgaacagctt gcgaaatgca aatattaaaa cactttggga ggatgatgtc 240

catccacact atgttacaag gagatatgct gaatttacag cttctctagt tcatctcaat 300

gttgagcatg gggacggtca gcttgatcta aatttggagc gattgcggat ggccattgag 360

gatttgcttg ttaagttggc tcaagatgtt ttccaaaccg aagctacaaa ctgtctttct 420

gataaacaac tatgatttaa caatttccat tttgaaggaa gctgg 465

<210> 10070



<211> 384  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-035-Q1-K1-C11  
  
 <400> 10070  
  
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 tggaatccgt ggcgccgcgg ctgccgaacg tcactttcct cgacatcagc agctgcacga 120  
 agatgggggc ccgcggcctg gaggcgttcg gcaagcactg caagtccctg gcggggctgc 180  
 ggcgggtgat gcacccgatc gacctggcgg acagggcgtg ccagcacgac gaggcgcacg 240  
 ccatcgctg cagcatgccc aggctgcggc acctggagat ggggtacatg ctggtggcga 300  
 cggaggcggg ggcggagatc ctggggcggg gccgcgagct caggttcctg gacctgcgcg 360  
 gctgctgggc ggtggacgac aagc 384

<210> 10071  
 <211> 420  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-035-Q1-K1-A9  
  
 <400> 10071  
  
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 gcatcgccga ggaccgccgt agcgatttgc gaagcaaggg acgggagagg aacccgagga 120  
 aggcgaaaat gatctaccgc aactggtcgc tgctctcgtc cacagtcgtc atttggggcg 180  
 gcgtcgccac cgccggcctc gccggtatct tctcttggg cggcaaggag aaattcaatg 240  
 gttatctgtg ccgcgaaggc gagaggctta ggcagcagga cagagccgcg atgggccgaa 300  
 gctaagcgtt agcttctttg gtatctcaag ggagcaatag ccttcgaaa tttcacaaga 360  
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<210> 10072  
 <211> 409  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-035-Q1-K1-B1

<400> 10072

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aagcccaagt tattggatga gaagcagacc accatctaca aaagggtgt agacaagaat 120  
tataacctga agatgaaagc gtcaagattt attttcagtg aaatcagcca gaagttccca 180  
atcatgccct tctactgctag ggcattagaa gagaagcgtg cacgcttagg cttggtggaa 240  
tgcatgaacc atgagctatt gcagccgtac cctgtacttc atgagaagcc aggtgacctt 300  
gttgcacaca taaagttcac tgtgctgcta atgcccaatg gatcggatag gattacatca 360  
tatccgctac aggagttaaa gccacaacaaa tccattgaag acaatgctg 409

<210> 10073

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-B11

<400> 10073

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ctgagccaac tagctgtggt gaaccctgtc gcctacttgc aacagcagtt gcttgcaccc 120  
aaccacttg ctctggcaaa catagttgca taccaacaac aacaacaatt gcaacagttt 180  
ctaccagcgc tcagtcaact agccatggtg aaccctgccg cctacctaca acagcaacaa 240  
ctgatttcat ctagccctct cgctgtggtt aatgcaccta catacctgca acaacagttg 300  
ctgcaacaga ttgtaccagc tctgactcag ctagctgtgg caaaccctgc tgcctacttg 360  
caacagctgc ttccattcaa ccaactgact gtgtcgaact cttctgcgta 410

<210> 10074

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-B12

<400> 10074

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cgatcgatcg agagagagag agagagagca tggctggcag gagtttcctg attcgggtccc 120

ccaaggagga ggagtcacaac gccgccgtca gagaagctgt actgctggga gcaaagaacg 180  
 ccgcaatagc tgggtactgtg gttgcagttc ccacgttggt tggctgccgt gtccttcctt 240  
 gggctaaggc gaatctcaac tacactgcac aagcactcat tatactctgca gcctgtattg 300  
 ctggcttctt catcactgct gacaaaacca ttctacggaa cgcacgacaa atcaccatcg 360  
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<210> 10075  
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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-035-Q1-K1-B2

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 cagggccttg atcttaactc aggccctgga agtatagatt tagaaggaaa ggatgaacgg 180  
 atgcctttac cagtcagaca aaatttgatc ccaccctac atggctttgt ggaggatcaa 240  
 ggaagaattt accaaatgcc agttgtagga acaaagagaa aggaacctga tggcagttgg 300  
 gactcagaaa ggtctacata caagcagtta ccatggcaat gagggctctg aaagagatca 360  
 ttttgcaccg actggtctgc gaatgagcat atcacctgca tgtanagctt ggcccgtgtg 420  
 ttcttcagtc actggactac ac 442

<210> 10076  
 <211> 407  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-B3

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 aaagtacctt gaaacagacg atggacttct cataactga ggagtacaaa gctcttgcta 180  
 actgtcttga agatatgaag aacctgattg ccgatactgc ctaggttgat gcatgcaagt 240

tttggacgct ggatatgata atgtattggc cgttttctaataagcattgc tattgttgtc 300  
 ttgttgggaa tcaagatcac attatcggac tctgttaaca cacacagaga tgccaagaca 360  
 agtgaacctg cgccagagac tgtaagcgaa tatgggtgtgc tgctaca 407

<210> 10077  
 <211> 400  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-035-Q1-K1-B4  
 <400> 10077

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 aggtgccaat tcatacgtcg aggggtggtga ggacgaaagc gttgatgaca cagctgcgaa 180  
 cgtggttgat attgttgaca catttcgtgt acaggagcaa cctccttttg acaagaaatc 240  
 atttgctct tacatcaaaa aatacatgaa gaatctcact gctgtgttgc agccagagaa 300  
 agcggatgag ttcataaagg gtgtcgaggg tgctaccaag tttcttctta gcaagctgca 360  
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<210> 10078  
 <211> 462  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-035-Q1-K1-B5  
 <400> 10078

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 catgcaagaa ctaaaacaca tcttgtagaa aataaaatgt tgagcagttc tgttgaaaat 180  
 aaatttatcg ttaatggagg atctgcaatg cagacagacc atggacaaga gtttctttct 240  
 gatgttgctc atcaaggtag cttaagagta gatgaactag caaagttact agcttgagag 300  
 gtgattgctc ttttatcaac cacatagacc agtatcaaca tcctttgaaa catatgcaag 360  
 atttgcata actctgaatt ggttaaaaca ggtctcaagt ctgttgctgc gtggtgagtc 420

ctttttaacc ttgaaatact gaactataat cctgtgcat gt 462

<210> 10079

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-035-Q1-K1-B7

<400> 10079

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ctgttggcgg cgcagatagc gcagcaactg acggcgatgt gcggcctgca gcagccgact 240

ccatgcccct acgctgctgc cggcgggtgtc cccactgaa gaaactatgt gctgtagtat 300

agccgctggc tagctagcta gttgagtcac ttagcggcga tgattgagta ataattgtgc 360

acgcataacc atgggtggca gtgtcagtgt gagcaatgac ctgaatgaac aattgaaatg 420

aanaa 425

<210> 10080

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-B8

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acaatcatca gccctattac agcagttacc tttggtgcat ttattggcac aaaacatcag 120

ggcacaacaa ctacaacaac ttgtgctagc aaaccttgct gcctactctc agcaacaaca 180

gtttcttcca ttcaaccaac tagctgcatt gaactctgct tcttatttgc aacaacaaca 240

actaccattc agccagctat ctgctgcta cccccagcaa tttcttccat tcaaccaact 300

gacagctttg aactctcctg cttatttaca gcagcaacaa ctactaccat tcagccagct 360

agctggtgtg agccctgcta ccttcttgac acaaccacaa ttgttgccgt totaccagca 420

cgctgcgcct aacgctggca ccctcttaca act 453

<210> 10081

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-B9

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gaatgacact tagttccttt tcagcgtttg ccaccgccgc cacccaactt ggggcctttg 180  
gaacccttct gaacagcacc cttoegtctgc gccttctggg acttggacac ctcagccttc 240  
ttcgcccttct tctcatcctt ggtcttcttg atgcgctcct tgatctcacg aagagcagct 300  
tctctagcag catctcggac ttcaggcttc tcagctctct tcttctggat cacttccaag 360  
gaagcaccca caatggacct cgagtatggc ttcttgggtg c 401

<210> 10082

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-C1

<400> 10082

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ctaacgcgac aattttccct caatgctcac aagctcctat agcttccctt cttcccccat 180  
accttccatc aatgatagct tcagtatgtg aaaaccagc tcttcagccc tataggctcc 240  
aacaagcaat cgcagcaagc aacatacctt tatcaccctt gttgtttcaa caatcgccag 300  
ccctatcttt ggtgcagtca ttggtacaaa ccatcagggc acagcagctg cagcaactcg 360  
tgctacctgt gatcaaccaa gtagctctgg caaacctttc tccctactct cagcaacaac 420  
aatttcttcc attcaaccaa ctgtctacac t 451

<210> 10083

<211> 412  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-035-Q1-K1-C10  
  
 <400> 10083  
  
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 agaaatcatt ggatgcttat caaacatcaa gtgactctag aaggcctcat cttgttaatg 180  
 cacatcaagt ctgttgatcc ctattctcag gaagccaata aatcatccaa gccatatgtt 240  
 gatcaaatac ctacagctac taaaccacat gtcgagaaag tcacaactgc tctcaagcct 300  
 tatactgaaa gatcacgaca tgtatatgga cagtttcttg agacagctac tacatatcat 360  
 ccagcagctc acgcaactat ctoggattac cttcacccggc atgagttttac aa 412

<210> 10084  
 <211> 430  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 cccatctgtg gaacaacaca acagtgtgga agtgccacaa gcggctcctg taaaggaacc 240  
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 gggcaatgca caaggcaagc aacagagaaa gtgcaaggag tgtgatgtac tcgtggagga 360  
 caagctntac agagagcact gcaagagtgg gtggcacata cacaactaca cagccacan 420  
 gaatgggctc 430

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 <211> 241  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-H3

<400> 10085

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actaaccaac aaccagatcg cctattttcaa ggacaccttt aacctcttcg acaatgaccg 180  
ctacaatttc attacaacca aagatcaatt aacttttcatt ccatcacttt ttcaaaaccc 240  
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<210> 10086

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-034-Q1-K1-H4

<400> 10086

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ctgcctactt acaacagttg cttccattca accaactggc tgtgtcaaac tctgctgcgt 180  
acctacaaca gcgacaacag ttacttaatc cattggcagt ggctaaccga ttggtcgcta 240  
ccttnttgca gcagcaacaa caattgctgc catacaacca gttctctttg atgaaccctg 300  
ccttgacgca acccatcggt tgaggtgccg tcttttagat tacatatgag atgtactcga 360  
caatggtgcc ctcataccga catgtgtttc ctagaaataa tcaatatatt gattgagatt 420  
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<210> 10087

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-H5

<400> 10087

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gcctggcgcg ccatcgccaa gcacgccaag aactggaagg gcgtggacta cctcgtcttc 180  
aactcataca tctggtggct caacacattc gagatgaaag tcattcgccg tcatcagcat 240  
cagcttgaaa aggaggagga gggggtgagg tggagcaagt acgcccttgt ggaccggccg 300  
gtggcgtagc gggaggtgct caagacgtgg gccaggtggg tggaccgcca catcgacccc 360  
aaccgaacaa gagtcttctt catgggcatg tcgccaacc acgtcacgcc gtgggcgtgg 420  
ggtaa 425

<210> 10088

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-H6

<400> 10088

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atttattggc aaaaaacatc agggcacaac aactacaaca acttgtgcta gcaaaccctg 180  
ctgectactc tcagcaacag cagtttcttc cattcaacca actagctgca ttgaactctg 240  
ctgcttattt gcaacaacaa ctaccattca gccagctagc tgctgcctac cccaacaat 300  
ttcttccatt caaccaactg gcatcattga actctctgc ttatttacag cagcaacaac 360  
tactaccatt cagccagcta gctggtgtga gcctgctgc cttcttgaca caacaacagt 420  
tattgccgtt ctacctgcac gctgcgcta acgt 455

<210> 10089

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-H7

<400> 10089

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gaacaattgc aagagcagat tgagcagaga aatgtcgcaa ggaagaataa gcagtttgag 180  
 atatctgatg gaatcaggaa aaaccttgct accaaaggca tcgccctgat ggacgaacct 240  
 tctggtacag tatggagacc atgcgaacca gagcggctctg aagagtcatt attagctcac 300  
 tgactcaaca agtgcggtcg gtgtaaaatg agatttttgc ctgagggcag ttatcgcatt 360  
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<210> 10090

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-H8

<400> 10090

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 acacgtccag caagccgact gcctccatcg tcttcaacgg cagggcgctg ggcaccgctc 180  
 cagctcccgt cgtcgcttac ttctcatcca gggggcctag cactgcgagc cctggcatct 240  
 tgaagccaga cgtcattggg cccggcgta acgtcggtgc ggcattggccg ttcaaggctc 300  
 ggccaacaac aaacaccgtc ggccgtgacc gtgacgacga cgaccaacat ggagcagcag 360  
 cagctacttt caactccgta tctggaacat ccattgtctg acctcacctc agcggcatcg 420  
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<210> 10091

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-035-Q1-K1-A1

<400> 10091

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 aatggcaaag ttggatgagg agtccgagga gctgcaccag aagttcctgg agaaggacat 180  
 cgaccttcca acctttgtgc agaagtacaa gaagctccgc acggcttacc acaagcaggc 240

gttgctccat ctgcgcggcc agacatcact ccgctgacat ccggccaggc gtcattggcaa 300  
 ctttgttgta tttctgctcg cctgttcttg ttctacacta tgcttgggcc tgttttacga 360  
 gtgcagcctc ttgtagggat ttgccgaaca tcagcggata ttgcatgtat agttntatgt 420  
 cttgcaaaaa cgtcttatgt actctgg 447

<210> 10092

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-A12

<400> 10092

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 atgaggcaga gatccaagta ggctgatggg gattgtggat ggtggtgtcg gcatagttgt 180  
 gttacgtttc ttcatgctgt gagttcatgg agagatgtca catcctagtt cgtcgtcacc 240  
 gtttgccatg ggtccaatgg ctcgctcttg aaacctgcac ttcagtaggc catctatcgt 300  
 ggtttctagc tatatccaga gttttgtgct aagacaaatc agtcagtcgt tttgtgaacc 360  
 tattatgatg gagctttatt tgctgcta atcgacctac ctgttaagta aaaa 414

<210> 10093

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-A2

<400> 10093

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 tctggctcct gagtacatta tggtcgacaa accaactgca agttgtgatg tatacagctt 180  
 tggaataata ctattggagc ttgctagcgg caaactgccg atagaaaagt catgctctgt 240  
 taagacatat ggaattcgaa actcgttgct cccgctggca aggcacggca gatatgatga 300  
 aattgcagac tcataactga gcgacaaggt ctctgaatct gaactgacat gaat 354

<210> 10094  
 <211> 342  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-035-Q1-K1-A4  
  
 <400> 10094  
  
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 tatgaactct ggatgtgttg agacactcat actgtagcct ttaagggat gagttttgat 120  
 gtttaaattg gtcttctgaa tgtttttaag cgtgctggga cttctcatgt gatgcttaca 180  
 taatcgagtc caagaattga tggttctaaa aaaaaaaca aagataaaaa caagcaaaca 240  
 tagaacatta aaaatatgca aatcataact tccctgacat acggccaggt atctatgcaa 300  
 caatgaaaaa aaaaaggggg gcccttttta agggccaag tt 342

<210> 10095  
 <211> 448  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 10095  
  
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 gccgaggaag aagtcggtga cgaggtccgt gaaggccggg ctccagttcc ccgtcggccg 180  
 catcggggcg tacctcaaga agggccgcta cgcgcagcgc gtcggcagcg gtgccccgt 240  
 ctacctcgcg gccgtcctgg agtacctcgc cgctgaggtc ctggagctcg ccggcaacgc 300  
 tgccaaggac aacaagaaga cgcgcacgt cccgcgccac gtgctgctgg cgatccgcaa 360  
 cgacgaggag ctcgggaagc tgctgaccgg cgtgaccatc gnccacggcg gcgtgttgcc 420  
 caacatcaac ccggtcctgc tgccaag 448

<210> 10096  
 <211> 447  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-A7

<400> 10096

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acgagccgga gagcatgcgt gagctgcggc tggtagccga caagcacgag tgggggttca 120  
tgcagtcgtc cccggacgag gcgtcgctgc tgcggatgct gatcaagctg agcggcgcgc 180  
ggcggacgct ggaggtgggc gtgttcacgg gctactcgct gctggcgacg gctctggcgc 240  
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gccccctcat cgagcgcgcc ggggtggcgg gcaaggtgga cttccgggag ggccccgcgc 360  
tggagcagct ggacgagctc ctcgccgacc cggccaacca cggcgccttc gacttcgcct 420  
tcgtcgacgc cgacaagcct aactacg 447

<210> 10097

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F7

<400> 10097

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aaccatcagg gcacagcagc tgcagcaact cgtgctacct gtgatcaacc aagtagctct 180  
ggcaaacctt tctccctact ctcagcaaca acaatttctt ccattcaacc aactgtctac 240  
actgaaccct gctgcttatt tgcagcaaca actattacca ttcagccagc tagctactgc 300  
ctactctcag caacaacaac ttcttccatt taaccaattg gccgcactga accccgctgc 360  
ttatttgcag cagcaaatac tactaccatt tagccagcta gctgcagcaa accgtgcctt 420  
cttcttgaca cagcaacag 439

<210> 10098

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F8

<400> 10098

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cttgcctcaa ctcaccctat taggcttgga ctggcactta acttctcagt gttctactat 180  
gagattctga actcacctga tcgcgcctgc agtcttgcaa agcaggcttt tgacgaggcc 240  
atctcggaac tggacaccct gagcgaggag tcctacaagg acagcacttt gatcatgcag 300  
ctccttcgtg ataacttgac cctatggacc tctgacatct cggaggaccc tgctgaagag 360  
attagggagg cgcccaagcg ggactcgagt gaggggcagt aaagccggct ttatgtgcct 420  
agaaactagt agctagt 437

<210> 10099

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F9

<400> 10099

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tgacggagat gtacagagcg attttcttgc ccaaggtttt ggttctctgg gtttgatgac 180  
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cactagacat ttcaggctac atcagaaagg acaggagaca agtaccaaca gtattgcctc 300  
catatcgct tggaccegtg gacttgaaca cagggcaaag ctggataaaa atgatagtct 360  
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<210> 10100

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-G1

<400> 10100

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catcagggca cagcagctgc agcaactcgt gctacctgtg atcaaccaag tagctctggc 180  
aaacctttct ccctactctc agcaacaaca atttcttcca ttcaaccaac tgtctacact 240  
gaacctgtct gcttatttgc agcaacaact attaccattc atccagctag ctactgccta 300  
ctttcagcaa caacaacttc ttccatttaa ccaattggcc tcaactgaacc ccgctgctta 360  
tttgcagcaa caaatactac taccatttag ccagctagct gcagcaaacc gtgcttcctt 420  
cttgacacaa caac 434

<210> 10101  
<211> 390  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-034-Q1-K1-G12  
<400> 10101

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ctgctaatacc cagtcaaatc gaagcaagca tggccatggc ggccgtgggc gtgggcgggc 180  
cagtggcggt cctcctcccg cagcgcgcgc agggcgccgt cccctggagc ggcgggcggc 240  
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aggtggggat gatgacctac ttgatccgg agacggtgaa gccggtgccg gtgaccgtgg 360  
tcgggttccg ggagggcggc aacgtggtga 390

<210> 10102  
<211> 294  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-034-Q1-K1-G2  
<400> 10102

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attcttccat tgcggggcat gtaaattgtg tattcatttg aaaaactatc aacataactca 180  
 tgtgcatccc actgtatcaa acattcaaac attatgattg atatgattcc atgatacacg 240  
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<210> 10103  
 <211> 439  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-034-Q1-K1-G3  
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 cctttgtcat gggcaataag gctcaaagtt gccattggag ctgctagggg cttgtcattt 180  
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 gattcggaat tcaacgcaaa actttcagat tttggcttgg caaaagccgg tocaactggg 300  
 gataaaaccc atgtatccac acaagtcatt ggtactcatg gatatgcagc tocaagagtac 360  
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<210> 10104  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 aaggcgctca acgagcacca tgtcctcttg gagggtagcc ttctgaagcc caacatgggtg 180  
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 acccttcaaa ggaccgttcc tgctgctgtg cctgctgttg tcttcctctc tgggtggacag 300  
 agcgaggaag aagccacccg caacctcaat ggcatgaaca aactcagcac caaagagccc 360



tggtccctgt cttctccttt cgccgtgccc ttcaggcgag caccctcaag cctgngctgg 420  
caaggtgg 428

<210> 10105  
<211> 428  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 10105

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ccagcagcag atgaggatga tggacgtgca gtccgtcgcg cagcagctgc agatgatgat 360  
gcagcttgag cgtgccgtg ccgncagcag cagcctgtac gagccagctc tgatgcagca 420  
gcaacagc 428

<210> 10106  
<211> 427  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-G6

<400> 10106

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tcaaggttgt tgtcacggaa gttcttgggtg gtgggaagtt ttatgttcag acaatgggtg 180  
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tcattgggtgc ttttaatcct gtgaagggag agatagtcct cgcacaattt agcgttgaca 300  
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<210> 10107  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-G8

<400> 10107

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ctgggcccaac tgatgctcaa tgtcatgcta aggctcgtat taatgctgac gcaaatttct 180  
atatcgctgg aagggatcct gatggtatga gccacccgac acagaatagg gacctctatg 240  
atgctgatca ctgaaagatg gttttgagca tggctactgt cctcgagagg ctcaacatcc 300  
ttgctttcaa ggacgctgca tatgacacaa agcataagaa aatggctttc ttgatccat 360  
caaggataga tgattctctc tccatcactg gcac 394

<210> 10108  
<211> 377  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-G9

<400> 10108

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gctactctta ctcatccacc atgaataatc tttgctgcag tggagcttca tgtcggcgaa 240  
caatgcaaac gttgtacttc tttcatgcga ttgagtagtt gatgttttac ttctgttgcc 300  
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aaagactagt gggaaaaa 377

<210> 10109

<211> 396  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-034-Q1-K1-H10  
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 gccagcaatt ctgaataaga gagacatatt cagggaagtt ttcattggatt ttgacccagt 180  
 atcagtctca aaattaagtg agaagaagat tatcgcacct ggaagcccta gcagttcctt 240  
 gttatccgaa cagaaactgc gcggtgttat tgaaaacgca cgccaaatac tcaagatcat 300  
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<210> 10110  
 <211> 274  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-034-Q1-K1-F6  
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 caacttgctt tgacaaaccc agcagcgctt taccaacaac ccatcattgg tgggtgccctc 180  
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 <211> 424  
 <212> DNA  
 <213> Zea mays  
  
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cgagtggcgg tgggtgcctaa tggggggcccg ggcgctgtcc ccgcggtggt gtcgccggga 120  
gctgtcggcg tggctcagcc tctcccgacc acgtcgctct acgtgggcga cctggagggg 180  
gccgtctcgg actcgcagct gtacgaactc ttcagccagg cggggcaggt ggtgtcgggtg 240  
cgcgtctgca gggatgtcac ctgcgcgccg tcgctcggat acgcctacgt caactacagc 300  
aatcccttgg atgctgcgag agcattggaa gtgctgaact ttgctgctct taacaacaag 360  
cctatccggg tgatgtattc aaaccgtgat ccaagcagcc gcaggagtgg atctgctaac 420  
atctt 424

<210> 10112  
<211> 396  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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gagtccgagg tgtagcaaaa gatctggggg ttagctgggt tgagctctac aaccgagttc 120  
atgtgtttgt tgtaggggaa caacaacatc ctgaagcggg aatatataat gtagagttga 180  
taaggctagc gaagcatatg aaggacgaag agtgtttctt gtttgatgac gaaaaggatg 240  
aactaggaga ttctcatgaa ggtgaacaaa tggaattgat atcaacaaca tattactgag 300  
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ccgtgatttg gggttattnt atgttgattt ttctttt 396

<210> 10113  
<211> 426  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-011-Q1-K1-C5  
<400> 10113

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aatgggacac ccagtacctc agctactccg agcacaaagg ggaaaactgc cggcaagggtt 120  
accaagaaa cacctaaaac tggccccaac cttaaaaaag aacttgagaa gaactccaag 180

gacaaggcta atgtttcaac tgggacaaaa gatgataaga gtgtgagcaa acctaaggag 240  
gctattatca aaggcaagga ttcaaaagac gaaggcaagt cactgaagg aaaagctaag 300  
cctggtcgga aaccaaaaaa tgctggtact cctgcgggtg attctgacaa agagaagcag 360  
gaggtagaag tcaaggcagc tgaaatagag gaggcacag gaaatgcttc cacagggag 420  
aagcgt 426

<210> 10114  
<211> 440  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-C8

<400> 10114

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cactgcttat tgggatgacc cacgagatgg atcatcaca ggacaaccaa acattggaag 180  
aatggtccag gaggaggagg attgacgtgc agttagctcg tgatggcttg cgtgtctaca 240  
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gctgatgtaa catccattcc cacttgtaga gaaagtgcaa actgactaaa aaggcgagcc 360  
tatttggtgc atcattttac gtttcgctag ttatacgtg aatctctgaa taaaaagag 420  
aaaaagaaaa gaaaagagag 440

<210> 10115  
<211> 368  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-C9

<400> 10115

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ccgagcttca gtgccttcgt tgtttgggtcc acgcagtcca cacacacaca ccagtacgtc 120  
cagctgcact gcaccaatgg ccgcgcgtga ggtccaggtc ccgactgccg ctcccgtcga 180  
ggaggttgcc cagctggccg ccgcctccgc cgtcgagatc ccgaacgagg agaccgctgc 240

tccggcggtg gagaccgagg tcgtcgtcgc taaggagccg gtgccggccg aggccgagac 300  
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 gccgaccg 368

<210> 10116  
 <211> 400  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-D11

<400> 10116

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 tggacgatcc aatacaagca attgggacat acaatatatc ggagaagcca cgttctggcc 180  
 tttgctagtg cagatgcacc acaaggcaaa agaagctcag gtgagaatgt tgtgatgggt 240  
 gatccactgg aagctaagcg cctagctgct aaacaaatgc aagaaattag ggccaaagaa 300  
 aagctgaaga ggcgccgtca agcagaagcg atcaacgggg cattggcagt gataggactc 360  
 acggctggat tgctagtgga ggctcagaca ggaaaggaca 400

<210> 10117  
 <211> 427  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-D12

<400> 10117

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 ggggcctaca cttgacgcac agggttgttc ttgtatagac aaaaggggag aaatgacacc 120  
 tccaatctcg agaattgtcg aacaaggaca gatctgacac ctcaattgcg agaaataaac 180  
 atcacagccg acagttgcat gatccctgaa cgaataaatt cagaactaga aaacagatgt 240  
 cactaaacaa catgtggtga atgttggaac ttgaactgct ctacttaagt gggcatctgc 300  
 tgctgcatgc tttgcatgga tttaatgatt cgtttatatt cttacttgta ctgaagtgtc 360  
 ctgattcggc acgatcactt gttgtgaagt gcttgaatgc tatatggtat catgagaatt 420

aataaac

427

<210> 10118  
<211> 430  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-011-Q1-K1-D2

<400> 10118

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attaacaagg atctaagcgt acattttaag aacacactgt agactgccta tgcacttggc 180  
cagttggctt tgaccaatgc tatgctatac cttgaggatg ttattgctca catgcaggca 240  
tttccattgc acagatacta ctgttggtgt cgtcgacact ggcacactaa gaatgatcac 300  
tccaataggc anggtccaat acatgattaa atgagaacaa tgctcactct catttgatga 360  
acaatgctga tactcagat gatgtgcata gctaagatct tgacatgctc tatattttac 420  
acgttcatgt 430

<210> 10119  
<211> 443  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-D6

<400> 10119

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tccctcctta tgctccttgc tctttctgca tgtgttgcta acgcgacaat tttccctcaa 120  
tgctcacaag ctctatagc ttcccttctt ccccatacc ttccatcaat gatagcttca 180  
gtatgtgaaa acccagctct tcaaccctat aggcaccaac aagcaatcgc agcaagcaac 240  
atacctttat cacccttgtt tcaacaatcg ccagccctat ctttggtgca gtcattggta 300  
caaaccatca gggcacagca gctgcagcaa ctctgtgctac ctgtgatcaa ccaagtagct 360  
ctggcaaacc tttctcccta ctctcagcaa caacaatttc ttccattcaa ccaactgtct 420

acattgaacc gtgctgctta ttt

443

<210> 10120  
<211> 421  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-011-Q1-K1-D7

<400> 10120

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ccgtatcccg gccacacgcc ggcgcaaggc gaggaatctg cctccccctc ctctgtggcct 120  
cccagaaagc tccagagttt cacaccaggc ctgtgggtcac aatacaaagc ttatgaggat 180  
gcagttgtgg agaacattaa aggaactatt gcggatgctc tggttcttgt gagagagcat 240  
caggcggagg caattggatg tgccactgtt gcaggattca ttctgttcag aggccctcga 300  
agatttttat accgcaatac ctttggccgt ttgaagactg agaaagattt actgaatgat 360  
gccgagcana gtatgatgga gtaccanaca tctattcaga actttgaaga aagaattcaa 420  
a 421

<210> 10121  
<211> 221  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-D8

<400> 10121

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gcttattagt tgtaattcaa taataaagtt ttctggaaat gtaacttctt atttctgggt 180  
ggccacatac atcatccaaa aataagaagt tacatttcca g 221

<210> 10122  
<211> 238  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations



<223> Clone ID: LIB3059-011-Q1-K1-A7

<400> 10122

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tatcttaciaa tttaaattct attoctacat caatttttaa ccttctttac cattaaaatt 120  
ctttataaac cattcattat tttctcatca aactctcaac tcaaaaacat tctcttcttt 180  
ccattaatct ttaaattctca aatccctggt cccaactatt ttcccatatc acttcttt 238

<210> 10123

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-A8

<400> 10123

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tcgagaagct attgcccgtg tgactctgct gaaactcata aagggtgtct atgagcatca 120  
tcctcgacca aaacagctca tagtagagaa tgacctccct cagaagctac agaacctcat 180  
tgaagagcgc agggatggac aacggggcgg ccaacaagtg ttgggtcaaac aaatggccac 240  
ctcatgctg aaagctctgc acatcaatac agtattgtga tattgggtgga tcatatgttt 300  
tcctctcaag ttgtatatgt ttgccctaga ggagaagggtg tcttttcctt ttgctctgct 360  
gtgggtggtt ctcatgagca ccagactcat ctgttggtacc tgatccctct tttttcgga 420  
gaaagggttt ttaggtgcag gat 443

<210> 10124

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-B11

<400> 10124

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aaaaaaaaa aaaaaaaaag aaaaagtaaa attttaaact acaaaaaaac cacaccaaca 120  
acaacattaa catcaaacac acaaaaatcc tccaacaccc tcaaatcatc caaccacctt 180

aaaacaccat aatttaacta ccattcttct tatctacttc taaaactaca tcattccttat 240  
 caccctatatt cattaccacc actttaatat atctatccaa ccattcttca aacaatatta 300  
 ctcaactaac atactaattc tatttc 326

<210> 10125  
 <211> 450  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-B3

<400> 10125

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 agtgcaacaa atgcgttcat tattccacaa tgctcacttg ctccgagtgc cattattcca 180  
 cagttcctcc ctccagttac ttcaatgggc ttggaacacc cagctgtgca agcctatagg 240  
 ctacaacaag cgcttgccgc gagcgtctta gaacaaccaa ttgccaatt acaacaacaa 300  
 tccttggcac atctaaccat acaaaccatc gcaacgcagc agcaacaagc actgagccac 360  
 ctagccgtgg tgaaccctat cgcttacttg caacaacagc tgcttgcac caaccactt 420  
 gctttggcaa acgtagctgc ataccaacaa 450

<210> 10126  
 <211> 347  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-B4

<400> 10126

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 gcgctgggca acttactact acaataagt aatcgatatg ttcccttcca aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagaaa 180  
 aaaaaaaaaa aaaaacaaaa cataaaaaaa aaaaacataa aacgtcatatc attttcaata 240  
 gagtaaccta aattaaataa actggccact gttaaacac tttcggactc aaaaaaactt 300  
 gcctttacc acctaaattt ccttgacgca cattcaattt tccccag 347

<210> 10127  
 <211> 441  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-B5

<400> 10127

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aacgaaaccc agctgcacca gcaacttctg ccagcagacc caacgacgga agcttttggt 60
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cacgtacgag gccttcgacc gtctgtctcc tccaactcc gccggctacc ggaccgacaa 180
agtccggcga aagcggctga cggcgcagaa gaggaaagag atcaaggagg cgttcgacct 240
cttcgacatc gacggctccg gcaccatcga tgcaaggagg ctgaacgtcg cgatgagagc 300
ccttgatttc gagatgacac ctgagcaaat cgggcagatg atcgcgaggg tggacaagga 360
cggcagctgc accatcgact tcgacgagtt cgtgcacatg atgacggaca agatgggcga 420
gcgggacgcc cgtgacgagc t 441
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<210> 10128  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-B6

<400> 10128

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gaagcaaggg aatcacatcg ccatggcagc caagatgttt gcattgtggg cgctcctggc 60
tctttgtgca accgccacta gtgctaccca tatcccaggg cacttgtcac cactactgat 120
gccattggct accatgaacc catggatgca gtactgcatg aagcaacagg gggttgccaa 180
cttgctagcg tggccgaccc tgatgctgca gcaactgttg gcctcaccgc ttcagccgtg 240
ccagatgcca atgatgatgc caggatatgat gccaccgatg acaatgatgc cgatgccgaa 300
tatgatgcca tcgatgatgg tgccgactat gatgtcacca ataacgatag ctagtatgat 360
gccaccgatg atgatgccaa acatggtttc accaatgatg atgccgagta tgatgccttc 420
gacgatga 428
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<210> 10129

<211> 422  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-011-Q1-K1-B7  
  
 <400> 10129

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acgtcgaaca cggcgcggat ggaggacggc ggcgggcgacc tgcggagcac catcaagaag  180
tggaatatca tctacctgt ctacctcaac tccaagaaga cggtcgccga gggccgccgc  240
atcgccgctg ccaaggcctg ccgggacccc acctgcatcg agatcgctga ctgctgttcg  300
cacctcaaga tccccacgc catcgagttg gataaggcgt accctcgga tttcttccaa  360
gtggggaggg tcagggtgca gcttaagaaa gatgacggct ccccgctcaa tctgtctatt  420
aa                                                                 422
  
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<210> 10130  
 <211> 420  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-011-Q1-K1-B8  
  
 <400> 10130

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ctggaagatg tatacccacg gatgactggc cgccgtccgc tgaagacacc gtccttcac  180
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gctggtgcaa ggtttggtgc tatgggtcta gatccccagg ctcaatgata tgaattactt  300
tcagtgaact gaggctgtga ctgatctgag atgcggcagt ctgttctct gcgcaagttg  360
cggaactgta caagtcattg ttcttgtatt tatacaggct agatgagaat tcttgtgcat  420
  
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<210> 10131  
 <211> 449  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-C1

<400> 10131

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ccggtcgcgt ctggaacgtc accaagcgcg ccatctgcgt ctagataaac aagcacgtga 180  
atggtcgcat catcaggaag cgtatccatg tccgcgtgga gcatgtgcag ccgtcccgtc 240  
gcacacaaga gttccgcctg aggaaggtga agaatgacca gctgaaggcg gatgcaaagg 300  
agcgcgggcca ggatcatcagc accaagaggc agccgttggg cccaagcct ggcttcatgg 360  
ttgaggggac taccatcgag accgtcactc ccattccgta cgatgtggtc aatgatctta 420  
aaggctgata ctaagttggt gtttggctc 449

<210> 10132

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-C10

<400> 10132

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accattttcc cacaatgctc acaagctcct atagcttcct ttcttcccc atacctctca 180  
ccagcgggtgt cttcagtatg tgaaaaccca attcttcaac cctacaggat ccaacaggca 240  
atcgcagcag gcatcttacc tttatcacc ttgttctctc aacaaccgtc agccctatta 300  
cagcagttac ctttgggtgca tttgttggca caaaacatca aggcacaaca actacaacaa 360  
cttgtgctag gaaaccttgc tgctactct cagcaacagc agtttct 407

<210> 10133

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-A6

<400> 10133

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gaggaggtga acaagggcct gaaccagga atggtggttc tgcttgtggt tgcaagcttc 120  
ctgctgctct tctttgtggg gaactatgcg atgtatgtgt atgcgagaa gacgtccccg 180  
ccaaagaaga agaagccggt gtcgaagaag aagctgaaga gggaaaagct gaagcagggg 240  
gtctctgctc cgaggagta aacggccatg ctgccgatcc tcccgccag agctcctatt 300  
cacatgatta ttaaagaaaa aaatttatat atatatacca gctggagccg tagtggttga 360  
gtaactttgt tctgtagatg ctctgtcttt aatggtacat ctgtattgga gactttaatg 420  
gcctgagccg agctagtatg ctt 443

<210> 10134  
<211> 436  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-010-Q1-K1-H12  
<400> 10134

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tggtaccaa gatattatga gtacttgctc ttcttgctgt gtttgctgagc gcaacaaatg 120  
cggttcattat tgcacaatgc tcacttgcta caagttcaat tattacacag ttcttcccac 180  
cagttactcc aatgggcttc gaacaccgag ctgtgcaagc ctataggcta caacaagcaa 240  
ttgctgcaag cgtttttacaa caaccaattt cccagttgca acaacaatcc ttggcacatt 300  
taacattaca aaccatcgta acgcaccagc aacaacaatt cttaccagca ttgagccacc 360  
tagccatggt gaaccctgcc gctacttgc aacagcaatt gcttgcatca aaccattttg 420  
ctctggcaaa cgtatt 436

<210> 10135  
<211> 286  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-010-Q1-K1-H2  
<400> 10135

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ccgacaggag gcgcggcacc tgcgccagca ccggcactcg caaggatgag gtgacgaccc 120  
gacagtacac catcaacctt cacaagcgcc tcaacggatg cacgtttaac aagaaagcgc 180  
cgaatgccat caatgagatc acgatgatcg cccaaacaac aatggatacc aacgatgtcc 240  
ggatcgatgt gaagctcaac atgcacgtct ggagcacacg aatccg 286

<210> 10136  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-H4

<400> 10136

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ccacaatggt gatccaggac gactacatcg acatggacct gaccccgga gccacaccgg 180  
agccctcgcc agcctcgccc cgcttcgagt tccagagcgc cggcgccggc gccgcccggc 240  
acaggcatag ggaggcggcg ttcgcgtccc ccgaggacga gctgttctac aagggaacc 300  
tgctgccgt ccacctgccg ccgcggctgc agctcgtgca gaggtcctc caggaccagg 360  
agcagccgcc gccgctgcga ggggcgaagc gggatgcgga gtcggatgcc acggcggcgg 420  
cggcggcaga gcg 433

<210> 10137  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-H5

<400> 10137

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cgcgggcaag tccgccggca aggagggcgg cgagggcaag cgtggcaaga agaagggcaa 180  
gaagagcgtg gagacgtaca agatctacat cttcaaggtg ctgaagcagg tgcacccgga 240  
catcggcatc tcctccaagg ccatgtccat catgaactcc ttcacaaacg acatcttcga 300

gaagctggcc ggcgaggccg ccaagctcgc gcgctacaac aagaagccca ccacacctc 360  
 ccgcgagatc cagacctccg tgcgcctcgt gctccccggc gagctcgcca agcacgccgt 420  
 ctctgagggc accaa 435

<210> 10138  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-H7

<400> 10138

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 gccaaagtgcc ccacctggtc ctgggaagcg ggcgatccaa gcaagaggaa gccgtatctc 180  
 cccgcccaata agcagttcct cgtcacccgt aatgtgccct gtttaagacg tgccatctcg 240  
 gttgaggaag agtatgatgc agcaggagca gaggtgggtc tcgatgagga tggcgaaggc 300  
 tggcttgcaa cacatggagt gcaagcatca aagacagaag aggaggaaga cattccctct 360  
 atggacacct tggacatagg gagatctgat ggaataaagt ctatcccctc ttacttttagc 420  
 ggtggcaagg atgaa 435

<210> 10139  
 <211> 241  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-H9

<400> 10139

caactatata tatacacttg cacacagcgg agtgggctac tcgagatgcg cttcgccagg 60  
 cgctgacgcc ttaggagata agtttaccta cccatagcac gtcaccacga atgggcctga 120  
 ggacattgct ggagggcaat tcgctgggtg caaatgcaca accgatattg aacgaaaacc 180  
 gtttccttgg tccaaggaga tggagcatgt atgaagtatc aggaaacggt caaaccaagt 240  
 c 241



<210> 10140  
 <211> 407  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-011-Q1-K1-A10  
  
 <400> 10140  
  
 cgttcagcat tcagaacaca ccaagtcgaa gcgcactatc aacgacctaa caacgggggc 60  
 tgtcaagata ttagccatcc ttgcgcttct tgcccttttt gtgagcgcaa caaatgcgtt 120  
 cattattcca caatgctcac ttgctcctag tgccattatt ccacagttcc tcccaccagt 180  
 tacttcaatg ggcttcgaac acctagctgt gcaagccaac atgcaacaac aagcgcttgc 240  
 ggccagcgtc ttacaacaac caattgcca attgcaacaa caatccttgc cacatctaac 300  
 aatacaagcc atcacaacgc aacagcaaca acagttccta ccagcactga gccacctagc 360  
 catggtgaac cctgccgcct acttgcaaaa gcagctgatt gcattca 407

<210> 10141  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-011-Q1-K1-A11  
  
 <400> 10141  
  
 agccaaaata ttatgcctcc ttatgctcct tgggtcttct gcaagtgtgt ctacagcgac 60  
 caggttcccc caatgctcac aagctcctat agcttccctt cttcccccggt acctctcacc 120  
 agtgttgtct tcagtatgtg aaaacccaat tcttcaacct tacaggatcc aacatgcaat 180  
 tgcacagggc atcttacctt tatcaccctt gtccctccaa caatcatcag ccctattaca 240  
 gcagttacct ttggtgcatt tattggcaca aaacatcagg gcacaacaac tcgtgctagc 300  
 aaaccttgct gcctactctc agcaacaaca gttacctttg gtgcatttgt tggcacaaaa 360  
 catcatggca caacaactac aacaactcgt gctagcaaac cttgctgcct actctcagca 420  
 acaa 424

<210> 10142  
 <211> 393  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-A12

<400> 10142

cacaaggcca caatccaagc cgaagaaccc taggcggtgg cggcgcatcc tgcataagccc 60  
acggtagtgt cagcgagcca gcgacctga gtagcagcag aggctccgca ggggcgaaaa 120  
ggtgtgaagc ttccttcgga gatcccagta gcagaagcaa cgcaggcatc ggcttgcgac 180  
aggagaggac ggagatgacg cagaagcaga ccctgttcaa ggggcagagc aagaagaaga 240  
ctatccctcc caaccgccac ggcaaggcgc ctcatgttcg taaaggaaag agagccgtca 300  
agcccaccaa gttcacaaag gacatggacg ccgagaagga actcaccaag ttcatcaacc 360  
agtgcacga aataaaagct gcgaatcttg cta 393

<210> 10143

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-A2

<400> 10143

cggacgcgtg cgcgaccac tcgtccttaa agatctgtca aacaaacatg tactcatggt 60  
ccgtttggac aactttgcaa aagttgacat tccagtgacc aatttgattg aagatgttaa 120  
agtgtatatt ggatgaaatt cacaaaaatc tgttcaaaac atatcaagaa aggagagatt 180  
catgtgttca ggtcgtaaac tatttgatg aattcacaac tgctctcaat aacaaaaggt 240  
acatctaggc tcctttgtgc tatgaagagg aagttcagaa agatgtgaaa tctcgcacaa 300  
acagtgaact cgcagctgcg aaaacattgt gtactccatt tgagcagcca gaacttccag 360  
aaggtattct gtgctttgca tctggaaagc c 391

<210> 10144

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-011-Q1-K1-A3

<400> 10144

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 tgagtgtgtg aatgacagcg gttgctgctg gcaagacaaa tctgctaata taacagcctg 120  
 tagggacacc ttccgtggta gagtgtgtga atgccccact ttcaatggcg tacaatttaa 180  
 aggcgatggc tacagcaatt gtgaacctgc tggaccagga aaatgcttga taaaccatgg 240  
 aggatgttgg catgaaactc gcaacggaaa aacattctct gcttgccagg aatctggaga 300  
 tgggaaatgc ctgtgcccag ctggtttccg aggggacggc gttaaaaaat gtgaagacat 360  
 tgatgagtgc aaggagaaaa aagcttgtca gtgtcctgaa tgcaactgca aagatacatg 420  
 gngtggctat gact 434

<210> 10145  
 <211> 448  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-011-Q1-K1-A4  
  
 <400> 10145

cggacgcgtg ggcggacgcg tgggcggacg cgtgggggaa aagggacaag ggcaagtga 60  
 gagataggcg tcgtcgtttg atctgctgcc ggagtgcgaa gaggaagagg aagaggaaga 120  
 ggagcgccgg agttgtaaag atgttcctgg tggactgggt ctatggggtg ctggcatcgc 180  
 ttgggctgtg gcagaaggag gctaagatcc tcttccttgg cctcgacaac gccggcaaga 240  
 ccacctcct ccacatgctg aaggacgagc ggctcgtaca gcaccagcca acgcagtacc 300  
 ccacgtcaga agagttgagc atcggcagga tcaagttcaa ggcgttcgac cttggggggc 360  
 accagatcgc ccgccgctc tggaaggact actacgcaa ggttgatgct gttgtgtact 420  
 tgggtgatgc tgntgacaag gaacgttt 448

<210> 10146  
 <211> 453  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-011-Q1-K1-A5  
  
 <400> 10146

ccacgctcga cccagacact ccactgctg gagggctttt aggtccttac ttaggaggca 60

cgttgtctct gaagctgaca gcttcgtgac caccactggc aacaaggata tcatcatggt 120  
 tgaccacatg aggaagatga agaacaatgc cattgtctgc aacattggcc actttgacaa 180  
 tgaaattgat atgctcggcc ttgagaccta ccctggcgtc aagcgcatca ccatcaagcc 240  
 ccagactgac cgctgggtgt tccccgagac caacactggc atcattgtcc ttgctgaggg 300  
 tcgcctgatg aaccttgggt gtgctactgg ccatcctagc tttgtcatgt cctgctcatt 360  
 cactaaccag gtcattgccc aacttgaact gtggaaggag aagagctctg gcaagtatga 420  
 gaagaagggt tatgtgctcc ccaagcacct tga 453

<210> 10147

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-H1

<400> 10147

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 ctgccgtctc atgaccaa at tccgcaagga atgtgaatct cttggccttg aggacttccc 120  
 gacttcagaa cggttgaaat ggcacgatca tcagcccggg aagcctgact ggtcagaggc 180  
 aagccgattc gttgccttca ccatgaagga cgaaaccaa ggcgacatct acgtggcctt 240  
 caacaccagt caccttccgg tggttgtcgg gcttccagag cgctctgggt tccgatggga 300  
 gccggtgggt gacaccggca aggaggcacc atatgacttc ctcaccgatg gcctaccaga 360  
 tcgtgctgtc accgtatacc agttctctca tttctcaac tccaatctgt atcctatgct 420  
 cagctactc 429

<210> 10148

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-F5

<400> 10148

caccactct actactogaa gttactacca gcagcttgct tcaacagtag aagagagcga 60  
 gaggatggcg tcaccgaagc cctcgtcggc ggccctgctc ctctggcgg cggcggccgt 120

gctggcgctg gcgcgcgcgg acctgacgca cgacaactgc gtgaagaaca agaaggtgac 180  
 ggtgcagaac ctgtgcagcc acgacgtgac gctgacgctg gagccgctgg ccaacagccc 240  
 gccgctgttc gggggcacct acacgctgca cccgcgcagc cacgccgagt tccccgtgtg 300  
 ctggtggacg ggggcgcctgc gcgcgcccga cgccgcccag gtggagtcc acgtcggcgt 360  
 cgacggcggc tccttctacc tggcccccaa cgcgagccg ggccagcgcg tcccggtctc 420  
 cgtcacc 428

<210> 10149  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-010-Q1-K1-F6  
 <400> 10149

cccacgcgtc cgggaacatc gaaaattatg ttttgaggga ccaggaaact cggtatcgtc 60  
 aaaggtatct tgatcttatg gtaaaccatg aagtgaggca catcttcaag acacgatcta 120  
 aaattgtctc atttatccga aagtttcttg atgaccgtga atttttggag gtggagactc 180  
 cgatgatgaa catgattgct ggtggagcag ctgcaaggcc ctttgttaca catcacaatg 240  
 aattaaacat gcggcttttt atgcgcattg ctctgaatt atatctgaag gaactggttg 300  
 ttggtggatt ggaccgtgtt tatgaaattg gaaagcaatt caagaatgaa ggaattgatt 360  
 taacacacaa tcctgaattc acaacttgtg aattttatat ggcgtatgcc aattataatg 420  
 att 423

<210> 10150  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-010-Q1-K1-F9  
 <400> 10150

attaaaaact gcaagataaa ccattctgta gttggactcc gatcttgcat atctgaaggt 60  
 gctatcatag aggacagttt actaatgggt gcggactact atgagacaga agctgataaa 120  
 aaactccttg ccgaaaaagg tggcattcct attggtattg ggaaaaattc atgcatcagg 180

agagcaatca ttgacaagaa tgctcgaatt ggagacaatg ttaaggtatt ccaaactgat 240  
 gttccaacgg tcaagaatat taatttagat ttttccttag gatattacat aatacttgat 300  
 atgccatfff gtcctcttat ttttaacatt tatttttgaa aatattaact tgaaaatatg 360  
 aataggcttg catgctcttt tttaaatatg actgtctata cttatctttc cctaattgcc 420  
 tg 422

<210> 10151  
 <211> 432  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-G1

<400> 10151

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 cccatgcttg gatgatgtca tggcatcccc atccttgaca ccgatcacia gtgttgccaa 120  
 gctaattgac ggctatcttg cagaaattgc accagatatc aatttgaagc ctccctaagtt 180  
 ccaagctctg gcctctgcta ttctgaata tgcccggcca ctggatgatg gcctttatcg 240  
 tgccattgat atatacttga aggctcattc ctggctgtca gaagctgaaa gggagcagtt 300  
 ctgccggtg ttggactgcc agaagctctc cctggaagca tgcacccacg ccgccagaa 360  
 cgagaggtg ccgttgcgcg tgggtgtgca agtcctcttc ttcgagcaac tccagctaag 420  
 aacctcgatc gc 432

<210> 10152  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-G10

<400> 10152

ggcattacaa cagtactcaa ttcaaggact tcagttcttg cagctgccaa tccaattgca 60  
 ggacgctatg atgatcttaa gactgcacaa gataatattg atctacagac caccattctt 120  
 tctagatttg atcaaacttt tattgtcaaa gatatcagaa tgtatgacca agataagcga 180  
 atagcaagcc acattatcaa ggtgcatgcc agtggtgcag cagcgtcatc cgcaaacaca 240

gaggggaagtg aaggagagaa ttggcttaaa aggtacattc agtactgccg tgcaacatgc 300  
aaaccacggc tttcagaaaa agcagctgag atgctgcaga acaaataatat cgagattaga 360  
cagaaaaatga ggcagcaagc tcacgagaca gggagggtg cagcaataacc catcactgtg 420  
aggcagcttg a 431

<210> 10153  
<211> 306  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-G11

<400> 10153

cccacgcgtc cggcttggca agaggaggaa agccgaagaa gatggaagtg aggaagaatt 60  
gaagaggaca agaaatgaga cagaaagcta tacaagcaat ggcagaggcc gtgggagagg 120  
tcgtgggaga ggtcgccgtg gtgtacgtgg agcttggcgg gaggtgggtca caagtcctga 180  
gcaattcaag gaggagaatc aatctagcaa ggtatatggt ctagtaaata aagtcgtcga 240  
tcaaagcatg acaactgtca aatgtatctt tgattaagta aagtatcact caagatttcc 300  
agtttc 306

<210> 10154  
<211> 426  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-G12

<400> 10154

ggagggcacc aagctaatat tccagttgca aaaggagcgc taggaagagg aagcaacgag 60  
ccatggcctc cgggtggcccg aaacccaaac tagcctacat catcttgtac gtgagggacg 120  
tggagaaggc cgcctccttc tacgacgcgc ccttcggcta caccgtccgc cgcctcgacc 180  
agtcccgcaa gtgggcggag ctggagagcg gggcgacgac catcgcgttc acgccgctgc 240  
accagcggga gacggacgag ctgtcggggg cgggtgcagct gccggactcg tcggccgcgcg 300  
gccggggctc cgtagaggte tgcttcgcct acgcggaagt cgacgcggcg tacaagcgcg 360  
ccgtggacaa cggggccgtg gccgtgagcg cgccggatga caagccctgg ggccagaagt 420

ccggct

426

<210> 10155  
<211> 422  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-G2

<400> 10155

ggcggatgtg gagaaggcgc tgtgggcca gatcggcatc ttgcatggcg gtggcggcct 60  
ggtcggggac agcagctacg gggcgcagga ggaactcgac gaggaagagg ccaaggagat 120  
cgacagcgcc cgcgcgcggc gccggaaggc ggcctacgag atggccatcg cctcaggcgg 180  
cgccagctcg ctcatcctgt ccaactacgc gcagctcctg tacgagatcg acaaggacat 240  
cgagagggcg gagatgtact tcaagcaggc ggtggccgcc gagccggcgg acggcgaagc 300  
gatgcggagg tacggcatgt tcctgtggca cgcccgcggc gacacgggcg gcgcggaaga 360  
catgttcacc ggcgccattg acgcggagcc cgagagcagc caccaccgga gcagctacgc 420  
gt 422

<210> 10156  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-G3

<400> 10156

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agcaacatca gtttcttcca ttcaaccaac tggctgcatt gaactctgct gcttatttgc 120  
aacaacaatt accattcagc cagctagttg ctgcctaccc ccagcaattt cttccattca 180  
accaactagc agcattgaac tctgctgctt atttacagca gcaacaacta ctaccattca 240  
gccagctagc tgatgtgagc cctgctgcct tcttgacaca acaacagttg ttgccgttct 300  
acctgcacgc tatgcctaac gctggcacc tcttacaact gcaacaattg ctgccattca 360  
accaacttgc tttgacaaac tcaacagtgt tctaccaaca acccatcatt ggtggtgccc 420  
tcttttagat tgc 433



<210> 10157  
<211> 429  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-G4

<400> 10157

cccacgcgtc cgcggaacgc tggggaagg tgtatactta aattttctta actttctcat 60  
aatgatagc atctatcttc ttgacgagag tttgaacaaa attcttgaac tgaaagaaat 120  
agaggctgaa atggctaaca tagttgagtg ggagcgcaga cctgctcaag aaagagagga 180  
gcggtgcgt gtatttcac agtgggaaaa tattgttcgt tttgacatga ggctagccaa 240  
tgaggatgtt ggaatgcttg cattcactct gaacaaattc cagcaccttt cttctccct 300  
gaaatggtgg aaagggttgc cagcatgctt aattacttcc tcttgcaact tgctgggtccc 360  
cagaggaaat ctttgactgt aaaggatccg gagaagtacg agttcaagcc gaagcagctt 420  
ttgaaacag 429

<210> 10158  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-G7

<400> 10158

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gagcctgttc ttagccctct cttttgtagc agctatgttt gccataggct ctcatgctga 120  
tgagactgt gagaatgacc tccaaagcct gataagtac tgcaagacat acgtgatgtt 180  
cccagctaat ccaaaggtcc ctcttcgga tgcttgctgt ggtgtcatca agaaggcaaa 240  
cgtttcttgc ttgtgtcca aggtcaccaa agaaactgag aaggttgtgt gcatggagaa 300  
ggttgtgtat gttgctgagc agtgaagag gccatttgag catggcttcc agtgcggaag 360  
ctacaagggt ccagcaaact gatgatatcg caagatggaa gcgcttgacg tagtctttag 420  
atttcaattg tt 432

<210> 10159  
 <211> 432  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-F4

<400> 10159

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 tcgccaacga aatccgcaac gttgaagcga agttggcgaa ggcaaccgaa ccacgcgctg 180  
 agccactggc ggcggttctt gcgccagcgc ccgcgcccgc tgcgcgtcct gttttaagct 240  
 acgtcactct tgggtcgttc agctgggagc aggacaacga gaagattagg atatatgttt 300  
 cccttgaggg agttgagcaa gagaagggtg agactacttt caagccaaca tcagtggata 360  
 taaagtttca tgatgtcaaa ggcaagaatt accggtgtgc tataccaaag ctgaacaagg 420  
 aaattgttcc tg 432

<210> 10160  
 <211> 273  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-E10

<400> 10160

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 accagcccac agacctgtgc aagatgatcc agatgaacga catgatcctg actctgatat 120  
 ggaagtggat gatcacaagg ctgtggaaga gtcacgagg aggagcattc taggtataaa 180  
 aatcaagaga gaatttgggtg aaaatgcgac cagagttcag gatggtggca gaatcgcatt 240  
 tgaacataga ggactggaac ccatggcaga aga 273

<210> 10161  
 <211> 320  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-E11

<400> 10161

gatcagcaaa cggcgggtgcg tagagaggat cgtcgaacag aacagcatga agatgggtcat 60  
 cgttctcgtc gtgtgcctgg ctctgtcagc tgccagcgcc tctgcaatgc agatgccctg 120  
 cccctgcgcg gggctgcagg tcttgtacgg cgctggcgcc ggcctgacga cgatgatggg 180  
 cgccggcaga ctgtaccctt acgcgaggta cctgacgcag tcgcagtgca gcccgatgtc 240  
 agcagagccc tactacgccc attgtggaca gcctagcgcc atgttagagc ggttctggcg 300  
 acaccactgc catgagcata 320

<210> 10162  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-E12

<400> 10162

acaacaactc gtgctagcaa accttgctga ctactctcag caacaacagg ttctgccatt 60  
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 cagccagcca gctgctgctt acccccagca atttcttcca ttcaaccaac tagcagcatt 180  
 gaactctcct gcctatgtac agcagcaaca actactacca ttcagccagc tagctgctgt 240  
 gagccctgct gccttcttga cacagcaaca attgttgctg ttctacctgc acgctgcgcc 300  
 taacgttggc accctcttac aactgcaaca attgctgcca ttcaaccaac ttgctttgac 360  
 aaaccagca gcgttctacc aacaacccat cattgggtggg gccctctttt agattgctta 420  
 tgagttat 428

<210> 10163  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-E2

<400> 10163

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 caatagatct gatgagtggg atacattatg ctgaagataa agataacaag acttcttaca 120  
 gttaatgtat acaatcttta gcagctataa gcagactgaa ttacaccaat gttaacacta 180

gcaaggagca tatgcgcctg caaatgatta agtgaaacat atcgatctat atttcaattg 240  
 tgcagatatc tatatttgca ttactgcata gtctcgaaca tactgcaact atgaatgttt 300  
 gcctccaaat tttccataga tttcgagtca tgagagaatc gagctccata tgtcgactct 360  
 gaatttactc tcttttggat gcgatgtgca ttagcctttt cttcataaaa atcaaaatca 420  
 tccagaattg atg 433

<210> 10164  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-E3

<400> 10164

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 gcagtttctt ccattcaacc aactggctgc attgaactct gctgcttatt tgcaacaaca 120  
 actaccattc agtcagctag ctgctgccta cccccagcaa tttcttccat tcaaccaact 180  
 ggcagcattg aactctgctg cttatttaca acagcaacag ctaccacat tcagccagct 240  
 agctgatgtg agccctgttg ccttcttgac acaacaacag ttgttgccgt tctacctgca 300  
 cgctgcgcct aacgctggca ccctcttaca actgcaacaa ttgctgccat tcaaccaact 360  
 tgctttgaca aacccaacaa cgttctacca acaaccatc attggcggtg ccctctttta 420  
 gattgcttat gagt 434

<210> 10165  
 <211> 415  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-E4

<400> 10165

cggacgcgtg ggcagccggg gaaggagcac gcgatggacc cccggcccga ggccatcgtc 60  
 caggactaca aggccgcaa caagctcaag gacaagggtg cgctcgtgac cggcggcgac 120  
 tccggcatcg ggcgcgccgt gtgcctgtgc ttcgcgaagg agggcgcgac ggtggccttc 180  
 accttcgtga gggggcagga ggagaaggac gcggaggaga cgctgcgtgc gctgcgcgac 240

atcgggtccg agacggggcg gcgcgagccg atggccctgc ccgccgacct cgggtacgag 300  
 gccaaactgcc gggaggtggt ggagcgggtg gcgtcggcgt acggcggggc catcgacgtg 360  
 gtggtgaaca acgcggcgga gcagtacgag cgggagagca tcggggacgt gacgg 415

<210> 10166  
 <211> 376  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-E5

<400> 10166

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 gtgcctggct ctgtcagctg ccagcgctc tgcaatgcag atgccctgcc cctgcgcggg 120  
 gctgcagggc ttgtacggcg ctggcgccg cctgacgacg atgatggcg cggcggggct 180  
 gtaccctac gcggagtacc tgaggcagcc gcagtgcagc ccgctggcg cggcgccta 240  
 ctacgccggg tgtgggcagc cgagcgccat gttccagcgg ctccggcaac agtgctgcca 300  
 gcagcagatg aggatgatgg acgtgcagta cgtcgcgcaa cagctgcaga tgatgatgca 360  
 gcttgagcgt gccgct 376

<210> 10167  
 <211> 280  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-E7

<400> 10167

cccagcgtcc gcccaaactg agaacatact aggatgcacg ctgcgtaacc ggctgcgcca 60  
 ttatggactt cggcttgaga acgagagcta agtgcataag aactggagcc gcgcgagccg 120  
 atgctcaagg ctcatgaagt cgatcgtaga ccaggatcatg gattatgagc acaacgttgg 180  
 ccatgctatg tagatatgat gaatgcgtca tgaccaattt gatgaagcat aagattgagt 240  
 atcaagattt atttggcaca cagcttggcg ccaaactcggg 280

<210> 10168  
 <211> 324

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-010-Q1-K1-E8  
  
 <400> 10168  
  
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 gttgctccct ccagttactt caatgggctt tgaacaccca gctgtgcaag cctacaggct 120  
 acaacaagcg cttgcggcga gcgtgttaca acaaccaatt gcccaattac aacaacaatc 180  
 cttggcacat ctaaccatac aaaccatcgc aacgcaacag ctacaactat ttgtaccagc 240  
 actaaaccaa ctagctgagg tgaaccctgt cgcctacttg ctacagcact tgcttggatt 300  
 cgacgcactt gctctggcaa acat 324

<210> 10169  
 <211> 431  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-010-Q1-K1-F1  
  
 <400> 10169  
  
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 agatatctgc tgaggacctt ggtggagcat cagtacattg caaggtatca ggagtctcag 120  
 atcatTTTtgc acaagatgaa attcatggac ttgagttggg gcgaaacatt gtgaagaacc 180  
 tgcaattagc tgctaaagga acaaatttc agagttctgc ttgtggttac caagagccat 240  
 tgtacgatgt agaggaactt cgctccattg caccagctga tgtgaaacag tccttcgaca 300  
 ttcgttcaat aatagcccgat attgttgatg gaagtgaatt tgatgagttc aaaaaattgt 360  
 atggaacaac actagtgact ggttttgcaa ggatatgtgg gcaaccagtt ggaattattg 420  
 gaaacaatgg c 431

<210> 10170  
 <211> 427  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-010-Q1-K1-F10  
  
 <400> 10170

attaaaaact gcaagataaa ccattctgta gttggactcc gatcttgcac atgggaaggt 60  
 gctatcatag aggacagttt actaatgggt gcggactact atgagacaga agctgataaa 120  
 aaactccttg ccgaaaaagg tggcattcct attgggtattg ggaaaaattc atgcatcagg 180  
 agagcaatca ttgacaagaa tgctcgaatt ggagacaatg ttaaggtatt ccaaactgat 240  
 gttccaacgg tcaagaatat taatttagat ttttccttag gatattacac aatacttgat 300  
 atgccatttt gtctctttat ttttaacatt tatttttgaa aatattaact tgaaagtatg 360  
 aataggcttg catgctcttt tttaaatatg actgattata cttatctttc cctaattgcc 420  
 tgcataa 427

<210> 10171  
 <211> 217  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-010-Q1-K1-F11  
 <400> 10171

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 ggtgcagctt ggccggcgagg cgcgcttggg cggccgggtgt cgggatcggt caggagcggg 120  
 tgctcgagca tggcgcggtg ggggtcccgg cgggtgaggct cggcgtgtgg tacattgcgg 180  
 tggctgctgc tgtggggggg acacttctgt acgcccg 217

<210> 10172  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-010-Q1-K1-F12  
 <400> 10172

gagaaggcgg cggcagtggt cggactcgga ggagccgggg cggcgagcgc ggcgcagcag 60  
 cagcagctgg cagcagggga ggccgcggcg gcgcgggtgc ggcccggtga gacgtgctt 120  
 cgcgcggcac cgctggggct ctgcgtggcc gccatgaccg tcatgctccg taaccagcag 180  
 agcaacgagt acggcgccgt cgcctactcc gacctgggag gcttcaagta cctcgtctac 240  
 gccaacggcc tctgcgtgct ctactcgtg gtatccgcgt tctacactgc cgtgccgagg 300

cctgccaccg tgtcgcgctc ctggctcgctc ttctctctcg accaggtgtt cacgtacctg 360  
 atcctggcgg cggg'gcgcagc ggcggcggag ctggtgtacc tcgcctacaa cggtgacaag 420  
 g 421

<210> 10173  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-F2

<400> 10173

aaaaaacaaa cgatatataa atagcagaaa tacaaaaata gaaaaggctg atacaaggag 60  
 aggagatata tgctgaagac cttggtggaa catcagtaca ttgcaaggta tcacgagtct 120  
 cagatcattt tgcacaagat gaaattcatg gacttgagtt ggggcgaaac attgtgaaga 180  
 acctgcactt agctgctaaa ggaacaaata ttcagagttc tgcttggtgtggt taccaagagc 240  
 cattgtacga tgtagaggaa cttcgctcca ttgcaccagc tgatgtgaaa cagtccttcg 300  
 acattcggtc aataatagcc cgtattgttg atggaagtga atttgatgag ttcaaaaaat 360  
 cgtatggaac aacactagtg actggttttg cacggatatg tgggcaacca gttggaatta 420  
 ttggaaacaa t 431

<210> 10174  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-E1

<400> 10174

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 ttaagattgc accggggctg tatttaccag cacatccgtg cttctacgta aacactatat 120  
 aacaattata agcagtttca attgcaacca tataaacact ttgaaggagc gtcagtgcct 180  
 tcaactagtt cactgaccca tcttgatctt tatttcaatt gtgcagatat ctatatttgc 240  
 attactccaa agtctcgaac aaactccaac tctccatggt tgccctccaaa ttttccatag 300  
 atttcgagtc atcagagaat cgagctccat atgtcgactc tgaatttcct ctcttttggg 360



tgcgggcgtgc attcgcccttt tcttcataaaa aatcaaaaatc atccagaatt gatgtt 416

<210> 10175  
<211> 424  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-C4

<400> 10175

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accaaactggc agcattgaac tctgctgctt atttacaaca gcaacagcta ccaccattca 120  
gccagctagc tgatgtgagc cctgttgccct tcttgacaca acaacagttg ttgccgttct 180  
acctgcacgc tgcgcctaac gctggcaccc tcttacaact gcaacaattg ctgccattca 240  
accaaacttgc tttgacaaaac ccaacaacgt tctaccaaca acccatcatt ggcggtgccc 300  
tcttttagat tgcttatgag ttatagttca ataataaagt tttttggatg atgtttgtgg 360  
cttcccagaa ataagaaagt acatttctag attctaaaaa aaaaaacaaa aaacaaacac 420  
aaaa 424

<210> 10176  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-C5

<400> 10176

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accaagatat tttccctcct tatgctcctt gctctttctg catgtgttgc taacgcgaca 120  
attttccctc aatgctcaca agctcctata gcttcccttc ttcccccata ccttccatca 180  
atgatagctt cagtatgtga aaaccagct cttcagccct ataggctcca acaagcaatc 240  
gcagcaagca acataccttt atcacccttg ttgtttcaac aatcgccagc cctatctttg 300  
gtgcagtcac tgggtacaaac catcagggca cagcagctgc agcaactcgt gctacctgtg 360  
atcaaccaag tagctctggc aaacctttct ccctactctc agcaacaaca atttcttcca 420  
ttcaaccaac tgtct 435

<210> 10177  
<211> 260  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-C7

<400> 10177

ggtaattttt ctacagatga accactgcta gcacagtagt gatccaacaa ctgctgacaa 60  
gatatttagc ctcccttaggc ttattgggtct gctgcggaca tgctgatagc acaaccatta 120  
tcacggagtg ctcagaatct gctatagcaa ccgtgctaac tccgtacctt tcacgagaga 180  
cgtcttcggt atgtgaaaac ccatttggtg aaccttataa gatccaacac gctgtcctag 240  
atggcttggt acctttatca 260

<210> 10178  
<211> 434  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-C8

<400> 10178

ctttcatgaa gcactgttca gttcagggtc aaccaaattc agctcccctg aatcatgtgc 60  
agctttgcag attatctcta acatgcattg gatttgctga acgcctgttg tgggttcaaa 120  
tgctggacct aagccataat agtctgagat cagtcgaagg attggaggct ttgcagcacc 180  
ttgtgttctt gaacatcagc aacaaccaga tcagtgggtt cacagcactt gaatccctta 240  
cgaagataat ctcatgaaa gttctggatt tatctttcaa caagattgga gctcactcaa 300  
ttgacacaac acggtatatc tgctcgtctc cattctcaca caaaatggaa gcaagtgaag 360  
cttttgaagc gtaccagaag gtaaatatca acgtggagga atactgggat gccatactgt 420  
ttttcagatc tctg 434

<210> 10179  
<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-D10

<400> 10179

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gctctgttct caaagacatg gattgaagtt tctggttcat cagcaaagga tgttgctaag 120  
cagctcaagg aacaacaaat ggtgatgcca ggccatcgtg agtcaaactt gcagaaggaa 180  
cttaaccgat acatccccac tgccgctgca tttggtggtg tatgcattgg cgcattgacc 240  
gtcctggctg atttcatggg tgcgattggt tcaggaactg gtatatgtct cgctgtgaca 300  
atcatatacc aatacttcga aacctttgag aaggaaaggg cgactgagct tggtttcttt 360  
ggtttttgat tagtagctgt ggaaccttaa cttggctata gctgaatttt cttgtaagtc 420  
cctgt 425

<210> 10180

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-D11

<400> 10180

eggcaagcta gagacgaggg tcgatcagtc cactacgcta aacgaagcag tctccgtgga 60  
gaacaagggg aagccgcagc cccagcgtca gcgcgcagct gagcaggaag ctccgagcgg 120  
cttcgtgctc cctgacctca acctcccgcc agacgtctga cggctgcctg aatctgtcga 180  
tcggtggcca gatcgagcta tagcacgcta acctcatagc taaactgtac atagaagaag 240  
aagctgcgcc agaaggaggg ggggtggggt ctgaacggcc acacttacca ggatactgag 300  
gcagaagaag aacggagggt atctttgtgt cataagttgt cgacgttttag ggttttagagc 360  
cgtcgtgatc gtatcctccg gcctgaacaa cgttgtttta tgttcagagc ggaggaccc 419

<210> 10181

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-D12

<400> 10181

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ctaactcatg gggacaaaat ctttctttgt tgtatgaccg cgtcctgaag taccagAAC 180  
gtgtccagaa tctgtacttc acctacctgt ttgttcttcg ggccgtgaca aaagcagcaa 240  
attatcttga gcaggctgag tacaataccg gcaatcctga agacgacttg aaaacagaat 300  
ctcttgtgaa gcagttgctt tacaattcca agttaagatc tgcattgtcca ttgccttttg 360  
atgaagccaa actttggcaa ggcgaaaatg gtctgagct aaagcaagag attcagaagc 420  
aatTT 425

<210> 10182  
<211> 432  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-010-Q1-K1-D4  
<400> 10182

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caagcccggtg ccaacttgaa ggaacctgcc gcgttggcag caccocgac ctgggccagt 120  
gcgtcgagtt cctgaggcat cagtgcagcc cggacggcaa cgcctaattg ttggcttaat 180  
ggccggccgt gccggagcaa tgtttgcagg aacttaagcc agttgagccc gcagcaccgg 240  
taccaggcga tcttcggctt ggtcctccag tccatcctgc agcagcagcg taaagcgggc 300  
aggctctcgtg gctgttggcg gcgcacatag cgcagcaact gacagcgatt tgcgggctgc 360  
atcattcgac tctatgcgt tactcctgtg tcggcggtgt tctccactgt agaaactatg 420  
tgctgttgta ta 432

<210> 10183  
<211> 425  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-010-Q1-K1-D5  
<400> 10183

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gcttctgaga caactaactc ccaacaacgc aacagtaacg ctaaaagctg tcagtttcca 120

ggatgtgtga aaggagcaag aggggcatca gggcggttgca tagcacatgg cggcggtagg 180  
 cgttgccaga aacctggttg tgagaagggc gctgaaggga ggacaatcta ttgcaaggcc 240  
 catggtggag gcaggagatg tcaatttctc ggggtgtacaa agagtgtga agggcgcaca 300  
 gaccactgca tagctcatgg tgggtggccgc cgctgcagcc atgaaggttg ctcccgagct 360  
 gctcgtggaa aatctggcct gtgtatcaag catggtggtg gcaaaagggtg tcagaaggag 420  
 aactg 425

<210> 10184  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-010-Q1-K1-D6  
 <400> 10184

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 cttgtgagac aactaactcc caacaacgca acagtaacgc taaaagctgt cagtttccag 120  
 gatgtgtgaa aggagcaaga ggggcatcag ggcggtgcat agcacatggc ggcggtaggc 180  
 gttgccagaa acctggttgt gagaagggcg ctgaaggagg gacaatctat tgcaaggccc 240  
 atggtggagg caggagatgt caatttctcg ggtgtacaaa gagtgtgaa gggcgcacag 300  
 accactgcat agctcatggt ggtggccgctc gttgcagcca tgaaggttgc ttccgagctg 360  
 ctctgtggaaa atttggccct gtgtatcaag catggtggtg gcaaaagggtt gtctgatgga 420  
 gaac 424

<210> 10185  
 <211> 434  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-010-Q1-K1-D7  
 <400> 10185

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 cttacaatga ggctgttttt gtgcttgatc aggattcgtg tctatccagt gatgtttgat 120  
 agtttcatca ggcaggagca tagaatggtg aatcttttcg attgaggact gtgaatccat 180

ggatgttcag tcattgtttg tgtagacatt gtggtgagct tggaggccac cccacctact 240  
 caataaagca gtgctgggag taatagagca ctgatgtact gagggcgcct aggttaaaca 300  
 cgaggaaccg gttatatttg tttcgcggtc gaacacaatc aattttttgt tggtgacttg 360  
 tttcttatga ttctacatat ttttaaggttt atgtgctgtc ctaaccgtgg tctttgatac 420  
 cggttatttt ggat 434

<210> 10186  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-D8

<400> 10186  
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 caccgtttca tctaccgcct ccgttctata tgccgcctcc gttctatctg ccgccgcagc 180  
 agcagccgca gccatggcaa taccctactc aaccacgcga gctaagcccg tgccagcagt 240  
 tcggatcctg cggcgctggc agcgtcggca gcccgttcct gggccagtgc gtcgagttcc 300  
 tgaggcacca gtgcagcccg gcggcgacgc cctacggctc gccacagtgc caggcgctgc 360  
 agcagcagtg ctgccaccag atcaggcagg tggagccgct gcaccggtac caggcgacat 420  
 acggtgtggt cctg 434

<210> 10187  
 <211> 236  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-D9

<400> 10187  
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 aaggttgata tcgatattgc aacacatata gttgttgaag acgacggggc aaaaagaagc 120  
 atgctttaca tagagacagc cgatcggcct ggcctacttc ttgagataat caagatcatc 180  
 gcggacacaa atattgatgt ggagtcagct gagatcgata ctgaaagttt ggttgc 236

<210> 10188  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-C3

<400> 10188

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 accttcctta aatggcttaa tattggccgg taccacagct tatggcctaa aaaccaggtt 180  
 taatctgtac attcttactg tgacaagcca ccgttataag ccagaaacga cactgatgga 240  
 tggaagccta agcgccctagc atttgggggt caagctgcgc cgcactctgcg aattgattgg 300  
 gctcatacac agcatgggca atcttttcgt gcccgtaga cccatgaatt ttggttgtca 360  
 gatgtcactt ttgatagtat aaattcgtca cgcactgttg tagacctatg ggcatt 416

<210> 10189  
 <211> 420  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-B10

<400> 10189

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 gcagcgagtg ggagacaagg ggaaatgggg aaggggagcgc aaggggagcga tgcggcggcg 120  
 gcgggcggcg aggtggagga gaacatggcg gcgtggctgg ttgccaagaa caccctcaag 180  
 atcatgccct tcaagctccc gcccgtcggc cttatgatg tccgcgtgcg catgaaagca 240  
 gtggggattht gcggcagcga tgtgcactac ctcaggagaga tgcgcatcgc gcacttcgtg 300  
 gtgaaggagc cgatggtgat cgggcacgag tgcgcggctg tggtcgagga ggtgggcgcc 360  
 ggcgtgacgc acctgtccgt gggcgaccgc gtggcgctgg agccgggcgt cagctgctgg 420

<210> 10190  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-B11

<400> 10190

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ttgggttggtg aggatgctct tgttcattctg cttaactatg tttggcccaa catatttgag 180  
acattctcccc acgttataaa tgctgtcatg gaggcaattg aggggatgag ggtcgcacta 240  
ggtgcggctg tgattttaaa ttattgcctg caaggtctct tccatccagc aaggaaagta 300  
cgagaagtgt attggaagat atacaactct ttgtacatcg gcgcgcagga tgcacttggt 360  
gcttcttatc ctgccctgga agacgatggg gataacatct ttagtcgtcc agagttggc 419

<210> 10191

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-B2

<400> 10191

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tcatcccctc ttatgccac atttcgttcc tttcacaccg gagaccggag agcagagacg 120  
tgcacagcag aacgcggaag caagaggagg cgatcgacta ctcgaccaga cctctccgtt 180  
cttgtctccg atggcggctc gcgtactagc ggccctagct ctgcgccctg cctctgctcg 240  
cctaccgcg cccacgcggg cgtccaacga cgagggggac gcgctctacg cgctgcggca 300  
gcggtgtcg gacccaacg gcgtgctgca gagctgggat cccacgctcg tcacctctg 360  
cacttggatc cacatcttct gcgaccaggt cggctgcgtc gtccgcctgg acttgggcaa 420  
ctc 423

<210> 10192

<211> 342

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-010-Q1-K1-B3



<400> 10192

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cccctcctcc gccgtcgccg gaggcgaagc aagtggggac cacagaagca ttagctgggt 120

gaaccactc aaagggggca gggaattgtg tgctagtgtg aatggctgct acaaagcttc 180

aggccctttg gaaccacccg gctggcccca aaaccattca tttctgggcg ccaacattca 240

aatggggcat cagcattgcc aacatagccg actntgctaa accacctgaa aagatatctt 300

accctcagca agttgctgtt gcatgcactg gactcatttg gt 342

<210> 10193

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-B4

<400> 10193

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gtacccccgc cctctccggc ggcccgcgta accaccgcgc cagatggcga cggcggccac 120

ggcgtccgcg acggcggcga cccgcttcac gctcctagcg ggccgcggcc tccgcagccg 180

catcaccgcg ctccccaccg ccgtgcggtt ccagcgcag cggggggtca ccaccaccgc 240

gctcctgaag accgccgacc tgcagcccaa ggagcagggc aagcccgaga cgctcgacta 300

ccgcgtgttc ctgcgcgacg gcggtggccg gaaggtgtcg ccgtggcacg acgtcccgtt 360

gcgcgccggg gacgggggtg tccacttcgt cgtcgagata cccaaggaga gcagcgccaa 420

gatggaggtc gcc 433

<210> 10194

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-B5

<400> 10194

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atgcctcttc tgagtcagat tgagacagac ggtggcaagt ctctggactt tagcaactat 120

ccttacatat ttatgagatg gaaagaacag tattttgtca atgttgagtg tgactgtggg 180  
 ttaaccatcg ctgggtttcta ctacgtctgc ttttcttgta gcgatggctc catcagtgga 240  
 ttttattatg atccaaatag cagtccattt cagaagctcg aattgaagtg taccaatgag 300  
 aaaagttctg gattcacctt ttcacacctat gagctgcagt gacagggcca gatgcatata 360  
 gtgtgtactg aactcatact cgcctaatac tgctgtattg aaagaaacga gtgggtgggtt 420  
 atgcaacact 430

<210> 10195  
 <211> 411  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-010-Q1-K1-B6

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 tcatgcgcca cgctcgccgag acgctcgagg tcgacctoga gccgctctac cagcggattg 120  
 gctggccgct ctaccgcaag tacggtcacg ccttcgaggc cttcaagctc atcggtgcgg 180  
 accctgacgc tatcctcgac gtactcacct atgaggaaaa ggaggtcggc ccagatggcc 240  
 aggaggtggc taaggtggtg cctgctgtca cccctgaggt taaggattca ctggtgaaga 300  
 acataaggag gaggatgaca ccgcagccac tcaagatccg tgctgatata gagatgaagt 360  
 gcttncagtt tgatggagtg ctccatatta agcaagctat gaagaaagct g 411

<210> 10196  
 <211> 276  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-B7

<400> 10196  
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 actagagcag ttcagcaagt gatgatggaa ggaaacaccc aaacattacc cagggggcca 120  
 ggacacaaac aaaggttttt caacaccaca acctggctcg acaggcaaac agattcctgc 180  
 gagcagagca gtatttgcac atgcaattga agtcatgacg ctttaagagc atgtcgcaaa 240

cggttacttg gggcataagc attgccaaca tagccg

276

<210> 10197

<211> 108

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-B8

<400> 10197

gcggcgatga ttgagtaata atgtgtcacg catcaccatg ggtggcagtg tcagtgtgag 60

caatgacctg aatgaacaat tgaaatgaaa agaaaaaagt attgttcc 108

<210> 10198

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-B9

<400> 10198

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tcagccagct acctgttgcc tacccccagc aatttcttcc attcaaccaa ctggcagcat 120

tgaactctcc tgcttattta cagcagcaac aactactacc attcagccag ctagctggtg 180

tgagccctgc taccttcttg acacaaccac agttgttgcc gttctaccag cacgctgcgc 240

ctaacgctgg caccctctta caactgcaac aattgctgcc attcaaccaa cttgctttga 300

caaacctagc agtgttctac caacaacca tcattggtgg tgccctcttt tagatttctt 360

atgagttata gttcaataat aaagtttttt gtctgatgtt tgtggcttcc c 411

<210> 10199

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-C1

<400> 10199

gactactaca gtgcccgcgc ccgctgcgtc caccaccacc tcctttccga actcctccgc 60

gtacccccgc cctctccggc ggaccgcagt aaccacccgc gcagatggcg acggcggcca 120

cggcgtccgc tgacagcggc gacccgcttg acgctcctag cggacgccgg cctccgcagc 180  
 cgcatcaccg gctgcccac cggcgtgcgg ttccagcgcc agcggggggt caccaccacc 240  
 gcgctcctga agaccgatga cctacagtcc aaggagcagg gcaagcccga gacgctagac 300  
 tacacgcgtg atcatggtcg acggcggagc ccggaagggtg tc 342

<210> 10200

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-C10

<400> 10200

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 ccccgcggtt cgcgggatca aggagccaga gagcgggacg cagcgagcgt tccgccggag 120  
 atcgagaccg tagctagggg ttgaggcgcc gggctgcggt ggacgagatg tcgacgccgg 180  
 cgaggaagcg gctgatgcgg gacttcaggc gcctgcagca ggacccgccc gccgggatca 240  
 gcggcgcgcc gcacgacaac aacatcatgc tctggaacgc cgtcatattc gggccggatg 300  
 atacgccgtg ggacgggtggc acgttcaagc ttaccttgca gtttacagaa gattacccaa 360  
 acaagccacc aactgttcga tttgtctcta ggatgtttca tccaaatata tatgctgatg 420  
 gaagc 425

<210> 10201

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-C11

<400> 10201

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 cccgtgccag cagttcggat cctgcggcgt cggcagcgtc ggcagcccggt tcctggggcca 120  
 gtgcgtcgag ttctgaggc accagtgcag cccggcggcg acgcctacg gctcgccaca 180  
 gtgccaggcg ctgcagcagc agtgetgcca ccagatcagg caggtggagc cgctgcaccg 240  
 gtaccaggcg acatacgggt tggctctgca gtccttctg cagcagcagc cgcagggcga 300

gctcgcgcg ctgatggcgg cccaggtagc gcagcagctg acggcgatgt gcggtctgca 360  
gctgcagcag ccaggtcctt gcccttgcaa cgcagctgcc ggcggtgtct actactga 418

<210> 10202  
<211> 427  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-C12

<400> 10202

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gtcggaaagt ttctcaacag cagctgatgg ccagactagt gtggagatca atgttctcca 120  
aggagaaaaga gagtttgtga gagacaacaa gtctattggg agcttccggc ttgatggaat 180  
ccctctgcc ctacgtgggtg taccacagat cgaagtcaag tttgatattg atgctaacgg 240  
tattctctct gtcagtgttg tggacaaggg tacagggaag aagcaggata tcacaattac 300  
tggtgctagc actctgccaa aggacgaggt ggagaggatg gttggcgaat ctgagaagtt 360  
tgcaaaggag gacaaggaga agcgagacgc cattgacacc aagaaccaat ccgagtcggg 420  
catctac 427

<210> 10203  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-C2

<400> 10203

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cgggccgagg aagaagtcgg tgacgaggtc cgtgaaggcc gggctccagt tccccgtcgg 180  
ccgcatcggg cgctacctca agaagggccg ctacgcgcag cgcgtcggca gcggtgcccc 240  
cgtctacctc gcggccgtcc tggagtacct cgccgctgag gtcttgagc tcgccggcaa 300  
cgctgccaag gacaacaaga agacgcgcac cgtcccgcgc cacgtgctgc tggcgatccg 360  
caacgacgag gagctcggga agctgctgac cggcgtgacc atcgcccacg gcggcgtgtt 420

gcccacatc aa

432

<210> 10204

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-B1

<400> 10204

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gccagggttg gcatggcaac cttctcgagg ttgacgctga ggagggtgcc gttcatcttg 120

acgaaccgca agagctcgtc gaaggagccg aagagcccaa gccagaattc aaaattgcgg 180

aggaacgagg ggctgcggaa ccgatctgg gcggcgatga ctacctggcc gacctggtgg 240

cttgacaggg cgaggctgcg gagctcggcg acgcggagag acagggtctt cccacgctcg 300

gtgcaaagga gtctgggac attggcgatg acggttgatga ggtcggtgcc ggagatgtcg 360

aggcccgcca ggaaggcgag gacgacgtcg ggcttcgagg gagacctgag gtcgaggatc 420

cttttgattt tggatgcctt gaggacct 448

<210> 10205

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-H2

<400> 10205

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tattgatgct agcaccatcc ctagagttgt cacttttgac aagaaccctg acaaccaccc 120

atacctcatg aaattcttcc aaagctcagc cccaaggct atgctgtttt tgaacttctc 180

caccggacct ttgattctt tcaagtctgc ctactctgct gccgcggagg aattcaagga 240

caaggaaatc aagttcctta ttggtgacat cgaatccagc cagggtgcct tccagtactt 300

tggcctgaaa gaggaccaga cacccttat cctcatccag gatggtgact ccaagaagtt 360

cttgaagggt caggttgagg ctgaccagat cgtcgcttgg ttgaaggagt actttgacgg 420

caaattga 428

<210> 10206  
 <211> 432  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-009-Q1-K1-H4

<400> 10206

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 gtctagcagc agccaccgcc gcctcatcct cgcagccgcc gtccctgctct ccgtgctcgc 120  
 ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc cgcacaaccc 180  
 gctcccgagc tgccgctggt acgtgaccag ccggacctgc ggcacgggc cgcgcctccc 240  
 gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300  
 gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccggggcccg acgcgcagct 360  
 ggagggccgc ctagaggacc tgccgggctg cccgcgggag gtgcagaggg gattcgccgn 420  
 caccctcgtc ac 432

<210> 10207  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-H5

<400> 10207

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 aatggaaaaa ctactacaac ccttcacgac atgcagagat gtgttaaaaa caacacacaa 120  
 cacacttgag tccccaaaga ctatgaactt ggagatcttt ggaattcatt ctatgaatgg 180  
 agcgctgtg gcgttggtac ttcagtgtgc atcgctccgg gtgagacagt ggttcaatac 240  
 ttagtgccat atctattagc aattcaattt gtacaccaac acgagaaatg ctccctgtttc 300  
 acatagcatg atttatgatg gaagattcga tcggaataac cattatagtg tttggatgta 360  
 cactcatgga tttcaagctc tattacgcat gcacactatt gtagttgaat ggaatgggga 420  
 g 421

<210> 10208  
<211> 359  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-H6

<400> 10208

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gctgcttcgt cggcggcctc gcctgggcca cggacgacca ctccctacac aacgccttca 180  
gcacctacgg cgaggctcctc tagtccaaga tcattctcga tcgggagacg cataggtccc 240  
gcggcttcgg cttcgtcacc ttctccacgg atgaggcgat tcggaacgcc atcgagggca 300  
tgaacggcaa ggagcttgac ggtcgcaaca tcaccgtcaa cgaggcccat tcccgtggc 359

<210> 10209  
<211> 449  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-H7

<400> 10209

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tcattattcc acaatgctca cttgctccta gtgccattat tccacagtcc ctccctccag 180  
ttacttcaat gggcttcgaa caccagctg tgcaagccta caggctacaa caagcgcttg 240  
cggcgagcgt cttacaacaa ccaattgccc aattacaaca acaatccttg gcacatctaa 300  
ccatacaaac catcgcaacg caacagcaac aacaatttct accagcactg agccaactag 360  
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tggcaaacat agttgcatac caacaacaa 449

<210> 10210  
<211> 361  
<212> DNA  
<213> Zea mays



<223> unsure at all n locations  
<223> Clone ID: LIB3059-009-Q1-K1-H9

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cctgtggaca ttgctggagg gttttttgct tcttgcaaat gcgttagcga tattgaacga 180  
agaccgcttc cttgggtccaa ggggatggag catgtctgaa gtatcaggaa acgggcaaac 240  
caagtcgttc aagggccaga tcgtggggct tatctacgct acacagtttc tgcggatgcc 300  
cttaattgct ctcaacgttc tcatcatcng tgtcaaattg gtgtctggct gagcctgatg 360  
a 361

<210> 10211  
<211> 439  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-A1

<400> 10211

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tcctatagct tcctttcttc ccccatacct ctcaccagcg gtgtcttcag tatgtgaaaa 180  
cccaattctt caaccctaca ggatccaaca ggcaatcgca gcaggcatct tacctttatc 240  
acccttgctc ctccaacaac cgtcagccct attacagcag ttacctttgg tgcattttgt 300  
tggcactaaa catcaaggca caacaactac aacaacttgg tgctaagaaa ccttgctgcc 360  
tactttaagc aacagcaagt ttcttccatt caaccaactg gctgcattga actctgctgc 420  
ttatttgcaa caacaacta 439

<210> 10212  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-A2

<400> 10212

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aagagccatc accgatgcag ggcgaagaag catgatgtga ggattttgga ttccttgagt 180  
tgaagagctt cataaggcta aaagtgggtga agcgtacatg tggtgggtgt agtggttcctt 240  
cactagcagc agctatztat cgatagcatg tctttgttgc agcatccact gatagagcag 300  
acaactagtt actagtgttt cgacattttg tatggcacag atgtttcata atagttccct 360  
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gctaagaaca tg 432

<210> 10213  
<211> 364  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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gaatccgatc cacgcatctt cgctcagact tgggtgggtga cgagcagcca tagatgtgca 120  
gacatcccta ttggaagaag atccgaacaa gaattatcaa gaagacaaaa ggagtgttga 180  
aacaggagtg catcaacttt catgagataa tgatccagtg gacgtgccaa tgacaaggtc 240  
atagaagaag ctatgcttga ggaagctatg agtgactgaa ggatttcatt ttccgtacta 300  
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gttc 364

<210> 10214  
<211> 69  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-010-Q1-K1-A5  
<400> 10214

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tatttgtat

69

<210> 10215

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-A6

<400> 10215

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taaataaaaa agtgggctgca tactacagca acagacctgc tgccttttcta gaactaacta 120

gctaccgtca ggctgaggca cattgcacaa gtgccatcga actcgattcc aagagcgtga 180

gaagcttatt tacggagagg cactgcaagg gagatgctag gttattataa ggaggccgca 240

gatgatttca accacgcgct tgttctataa ccaatgaaca agacctgtgg tgtcgccatc 300

aacaggttcc agaagctgtg tgcttgaata tgaatctgca tgaagatatg ataaccatga 360

tattttgtgc acacacaaga tgtgctgtgc acagatgcgg gattgaagta cctgactaca 420

accgacggat gct 433

<210> 10216

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-A7

<400> 10216

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tcgtcgaagg agccgaagag cccaagccag aattcaaaat tgcggaggaa cgaggggctg 180

cggaaccgga tctggggcgc gatgactacc tggccgacct ggtggcttga caggccgagg 240

ctgcggagct cggcgacgcg gagagacagg gtcttcccca cgtcggtgca aaggagtctg 300

ggatcattgg cgatgacggt tgtgaggteg gtgccggaga tgtcgaggcc cgccaggaag 360

gcgaggacga cgtcgggctt cgaggagac ctgaagtcga ggatcctttt gattttggat 420

gccttgagga cct 433

<210> 10217  
 <211> 159  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-010-Q1-K1-A8  
  
 <400> 10217  
  
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 atggcggctg cactcatgta ccctcagacg ttgaagtgtt ccagcagccc taaatgctca 120  
 gacatcctca tcgtaagaag ctctaaca gatttatta 159

<210> 10218  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-009-Q1-K1-H11  
  
 <400> 10218  
  
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 catcctacga cagcggcagg acggcggacg acatcgtcga cttcatcaag aagagcaagg 120  
 agaccgcagg cgccgccacc accaccacca cccaggcgcc accggcatcc gagaaggcag 180  
 ccgccgccga gcccgtaag gacgagctgt gagcatccaa ggtgtggacg gctgtggctg 240  
 cgtaagcatg ggaggaaaac ctggcgctaa cgtgcctoca acgcctagtt tttgcgggac 300  
 cagagggaga gagagagagg gacggagtta gagagagagg ggatctgcga cgtgttttgc 360  
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 t 421

<210> 10219  
 <211> 447  
 <212> DNA  
 <213> Zea mays  
  
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cggactacct cgacacctcc actgcaacca tgggtatctc acgtgattcg atgcacaagc 120  
 gccggggccac cgggtggaag cagaagacgt ggcgcaagaa gcgaaagtat gagcttggcc 180  
 gccagcctgc taacaccaaa ctgtctagca ataagacagt gaggagggtc cgtgtccgtg 240  
 gaggcaacgt gaagtggagg gctctccgat tggatacagg taactactcg tggggaagtg 300  
 aggctcttac ccgcaagacc cgcctcctgg atgtgggtcta taatgcatca aacaatgagc 360  
 ttgtgaggac tcagactctt gtgaagagcg ccattgtaca agttgatgct gctccattca 420  
 agcagtggta cctcactcac tatggag 447

<210> 10220  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-009-Q1-K1-F9  
  
 <400> 10220

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 gctattttga ctaccgtatt ggttgtcgaa agcctggggt gtataagggtg gtcttggact 180  
 ccgacgctgg actattttgt ggatttagca ggatccatca cgcagccgag cacttcaccg 240  
 ncgactgttc gcatgataat aggccatatt cattctcggt ttatacacca agcagaacat 300  
 gtgtcgtcta tgctccagtg gagtgataac cgggtactcg ttgctgcgcg gcatgtgtgg 360  
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 aat 423

<210> 10221  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-009-Q1-K1-G1  
  
 <400> 10221

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 ttctatgagg tcttctccaa gaacctcaag cttggcatcc acgaggactc cacgaacagg 120

accaagattg ctgagctcct gaggtaccac tcgaccaaga gcggggatga gctgaccagc 180  
 ctcaacgatt atgtgaccag catgaacgag ggccagaacg acatcttcta catcactggc 240  
 gagagcaaga aggctgtgga gaactacccg ttccttgaga aactgaagaa agagggtat 300  
 gaggtgctgt tcatgggtga tgccattgac gagtattcta ttggacagct gaaggagttt 360  
 gagggcaaga agctcgtctc tgccaccaag gagggcctga agctggacga gagtgaggat 420  
 gagaagaag 429

<210> 10222  
 <211> 452  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-G12

<400> 10222

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 aggcgaggcg aaaggcaagg caaagcggcg cgggtgggcat gatgtttgac gatcaagacc 120  
 tgggcttctt tgccaatttc ctgggcatct acatctgagc ctaggttatt gcgtaccact 180  
 ttgagaaggc ataaccgaga tacgcaagta actggtgtcc tttagtgcga agatccatt 240  
 atttgcaagc cgaattacgg ctctccagag agcttgagct agagagatgg cttgaaacgt 300  
 tcattgcgta ctatggagcc taggcatgca actgctggca taataggcat gtccaaggct 360  
 gaatacgctg aattagagaa tactggagaa ttcaggaacc gtgttaagta ctgcagatgg 420  
 gcggcagtat ctctactaa tgtatgcatg cc 452

<210> 10223  
 <211> 272  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-G4

<400> 10223

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 tcggcgccgg cctctccggc gtcgtctacg agcacctcgt cgccggcccg gccgccgagg 120  
 aggaggagcc cgcgccgagc tcggcgacc gccgtcgtgc gtagaggact acatgcatgc 180

aagagcagca ggacgtcgtc gtcgtccccg ctccctcgga tcttctgaat aaaaaaaca 240  
gcttgcattgc gtgctcaatt gttgtgtgtc gt 272

<210> 10224  
<211> 449  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-009-Q1-K1-G5  
  
<400> 10224

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cttgtccatg ttttctttgc acaacgttcc acgacaaagg tgccagggtg aactgatgtt 120  
caactgaaac caaggccaat tagaaaagtt gctgttattg gtggtggtct gatgggctct 180  
ggaattgcta catcacttct tgtagcaat atttctgttg tgctcaagga agtgaaccct 240  
cagtttctgc aaaggggaga gaaaatgata gcaggtaatc ttgagggcct gataaaaaaa 300  
ggttcactaa caaaggatag gatgcacaag gccatgtcgc ttttcaaggc cgctttggat 360  
tattcagatt tcaaggatgt tgatatggtt attgaggctg ttattgagaa gattcctttg 420  
aagcaatoga tattttctga cattgaaaa 449

<210> 10225  
<211> 443  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-009-Q1-K1-G6  
  
<400> 10225

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tgttgggctt gaagatctag ctgttgtgat ccttgatgag gctgatcgtt tgcttgaatt 120  
gggcttcagt gctgaaattc aagaactgat tcgtatgtgt cctaaaagga ggcaaaactat 180  
gcttttctct gctacaatga cagaagaaat tgatgaactt gtaaagcttt cactaaacaa 240  
gcctgtacgc cttgaagctg atccttctct gaaacggcct gcaacattga ctgaagaggt 300  
tgtaggata cgacgagcac gtgagtcaaa tcaagaagct gttcttcttg cactcttggt 360  
gaagactttc aagcgaagtg ttatcatttt tagtgggaca aagcaatctg cacacagggt 420

aaaaataata tttggtctct ctg

443

<210> 10226

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-G7

<400> 10226

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gtccatggag gagatggccg cggcgctgcg gctggacgcg cggcgccgcg gcgacagggc 120  
gcgcctccac gagctgctgc tctgctacct cgcgctcaac gacaggcgcg gcgacaagta 180  
cgtcgtcagc gccttcaccg acctcctcct ccgcctcacc gccgccgccg cagccgcca 240  
cctcagcgac gacgaccggc acgagtaacc gccttttttt tcacgggtcat ggccgtgcgt 300  
acggacagaa tttcgggtac ggcgaggct caaaaatcct cgacagcatg agcgagcggt 360  
ccaagatcac ccagagctgt acatactgcc tccagctcca gatcgagctc cgtagctaga 420  
aatctgttcg tgtgcgcagc attttg 446

<210> 10227

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-G8

<400> 10227

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gctctcgtg cgagcgccac ctgcacgcac acaagcggcg gctgcggctg ccagccaccg 120  
ccgcgcgttc atctaccgcc gccggtgcat ctgccacctc cggttcacct gccacctccg 180  
gtgcatctgc caccgccggt ccacctgccg gcgcgcgttc acctgccacc gccggtccat 240  
gtgccgcgcg cggttcatct gccggcgaca ccatgccact acctactca accgccccg 300  
cctcagctc atccccagcc acaccatgc ccgtgccaac agccgcaccc aagcccgctg 360  
cagctgcagg gaacctgcgg cgttggcagc accccgatcc tgggccagtg cgtcgagttt 420  
ctgaggcatc agtgcaaccc ga 442



<210> 10228  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-H1

<400> 10228

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acagtgtctt ggtgagcggg atcactggtg gctcttctcc tgcagtgttc aatgctgcac 120  
ggctcatgtc taccaagcta tttattggtg gtcttgactg ggggtgtgat gacgtgaaac 180  
taagagaagc atttagcagc tttggagagg ttactgaagc gaggggtgatc acagacaggg 240  
agactgggag gtcaagagggc tttggctttg tgaactactc cgacagtgat gctgccaaagg 300  
aagctatttc tgcaatggat ggcaaggaaa ttgatgggcg gcaggtacgt gtcaacatgg 360  
ctaattgagag acctgctggg aaccgtggtg gtggcggcta tgggtggcggc ggctatggag 420  
gtggtggcta 430

<210> 10229  
<211> 449  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-E2

<400> 10229

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agtagataaa gaccttgtga tccgtgccta ttatgctgga catgttatag gggctgccat 120  
gatttatgca aaagttgggg atgctgctat ggtatacact ggggattaca atatgacacc 180  
agatagacat cttggggccg cacagattga tcgtctgaag ttggatgtat tgataacaga 240  
gtccacatat gctaaatcta tacgtgactc aaagcctgtc cgagagaggg agtttttaaa 300  
agcggtagat aaatgtgttt ctggtggagg taaagttcta attccaacgt ttgctctggg 360  
aagagctcac gaactatgta tgttactgga tgactattgg gagaggatgg gcttgaaagt 420  
tcctatttat ttttcaactg gtttaacca 449

<210> 10230  
 <211> 396  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-E3

<400> 10230

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 atgcttgcaa atagacagcc taccacagtc agtctgcgcg gtcctacca attagactcg 120  
 agacgctaaa aaaaggtgtg tgagatccac tggggcacia gtttttgaaa agaaatgtct 180  
 cacgggggttt gagctggccg attgctgcaa cagttcatga acaagtctgc atgaaaggat 240  
 gcctttcacc tttgggtccg ggttaccct tccatgtcct tcgtatcaac aagatgcttt 300  
 cgtgtgctgg ggctgatagg ctccagactg gaatgagggg tgcctttggc aagccttaag 360  
 gcacctgttc taaggtggac aattggcagg tactcc 396

<210> 10231  
 <211> 446  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-E4

<400> 10231

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 gaccggttcc tcggagcacg atgaagtttg ctgctgccta cctgcttgct gtactcgctg 120  
 ggaacgccag cccctgcggt gacgatttga ctgccattct ggagtcagtt ggctgtgaag 180  
 ctgacaatga aaagatggaa ctctgctgt cccaactgag cggtaaggac atgaccgagc 240  
 ttattgccgc gggcagggag aagtttgctt cagtcccatg tggtaggggc ggtgtcgctg 300  
 ttgcggcagc tgcacctgct gctggcggag ctggtcctgc agctgatgca gagaaagaag 360  
 agaatgtgga agagaaagaa taaagcgatg atgatatggg cttcagcctc ttccactagg 420  
 ctgaacagcc atcacagtat tgtttt 446

<210> 10232  
 <211> 445  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-E6

<400> 10232

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taccgatcat tagcagctat accatttggc acaatggttg tcatgtttat tctttgggct 120  
ttcatctcct tcccgttggg tctattgggg actgtagttg gtagaaattg gagtgggtgct 180  
cccaacaacc cgtgtcgtgt gaaaacgatc ccgcgccccaa ttcctgaaaa gaagtgggtac 240  
cttacacctt ctgttatttc actgatgggt ggacttctcc ccttcggcag catcttcatt 300  
gagatgtact tcgtattcac ttccttctgg aactacaagg tgtactacgt ctatggtttc 360  
atgttgctgg tgtttgtcat cctcataata gtcaccatat gtgtcactat tgtgggtact 420  
tatttcttgg tgaatgctga aaact 445

<210> 10233

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-E7

<400> 10233

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caccagatth ttgtggccgg aagttgaaaa aagcccaaac aaacagggcc acagtatgga 120  
aatcattagc tctgtggact gtggtcagga aaaagaacag ccaacaaata aacgtgcaac 180  
gtcagaaaagt actacagaat caagcacata agcatccagg gagaacatta gaagggacaa 240  
gctgaacgag agattcttgg aattgggtgc cattttggag ccagggaata ctcctaaaat 300  
ggacaatata gctatattga gtgatgctat tcgtgtagta cgtgaattgc gtagtgaatc 360  
aaataagctc aaggattcaa atgagaatct tcaagagatg attaattgagc tctaagtcta 420  
tactatttca t 431

<210> 10234

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-E9

<400> 10234

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cacaaggctg tggaagagtc atcgaggagg atcattctag gtataaaaat caagagagaa 120  
tttggtgaaa atgcgaccag agtacaggat ggtggcagag tcgcatctgg acatacacga 180  
ctggaaccca ttgcagaaga catcggttcc ttcaagcaag ctctgcaga tgccaatgca 240  
atgggcattg atgaaccaag caatgtcaag aatgaacctg agagctcaac ta 292

<210> 10235

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-F1

<400> 10235

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gaaaaagaag gcgaataagt ccgtggagac ctacaagatc tacatcttca agtgctgaa 120  
gcaggtgcac cccgacatcg gcatctcgta caaggccatg tccatcatga actccttcat 180  
caacgacatc ttcgagaagc tcgcggccga gtccgccaaag ctggcgcgct acaacaagaa 240  
gccaccatc acctcccgcg agatccagac ctcggtgcgc ctcgctctcc ccggcgagct 300  
cgacaagcac gccgtctccg atggcactaa ggccgttacg aagttcacct cgtcttagga 360  
tccttgtaat ggatcatgtg gcgtcagcag taggcgtggc tcaatttatg tgatactgct 420  
agcgatggat gat 433

<210> 10236

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-F11

<400> 10236

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gcttcttatt tgcaacaaca acaactacca ttcagccagc tacctgctgc ctacccccag 180

caatttcttc cattcaacca actggcagca ttgaactctc ctgcttattt acagcagcaa 240  
 caactactac cattcagcca gctagctggg gtgagccctg ctaccttctt gatacaacca 300  
 cagttgttgc cgttctacca gcacgctgcg cctaacgctg gcaccctctt acaactgcaa 360  
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<210> 10237

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-F3

<400> 10237

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 tgaagcaagt ggttttgatg cgaagggttt tgcggttgaa aataaaggca agagtttga 120  
 ggccattggt gaacaagtac gcgatggcag tactgttcgt gtgtatttag tccctagttt 180  
 tcagtttgct cagatatatg ttgctggagt acaggcccta tcaatgggga gacgcccac 240  
 tgcacctact gtaattgctg aaactgatga tactgctaata gacactaacg gtgaagattt 300  
 tgagggaaca cctgtccaac tgactacagc acaaagactt gttgcatctg cagcttctgc 360  
 tgaaatttca ccatataggt atggaagata agcctatgca ctttacatag gctatagttt 420  
 tcaacatata tttgcgta 438

<210> 10238

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-F5

<400> 10238

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 aaggggcgcc cgtgcatcag tctgggagaa cttcaagaac aaccgctct tcgacatctc 120  
 aacggaccac ccaccacgt actacgagga catgcagcgt gccgtcttct gcctgtgccc 180  
 gctgggctgg gcccgtgga gcccctctt ggtggaggcg gtggtgttcg gctgcatccc 240  
 ggtgatcatc gccgacgaca tcgtccttcc cttcggggac gcgatcccggt gggaggagat 300

cggtgtcttc gtggccgagg acgacgtccc gaggtgagac accatcctga cgtccataacc 360  
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<210> 10239  
<211> 430  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-009-Q1-K1-E12  
  
<400> 10239

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aagacgtggc gcaagaagcg aaagtatgag cttggccgcc agcctgctaa caccaaactg 180  
tctagcaata agacagttag gagggtccgt gtccgtggag gcaacgtgaa gtggagggct 240  
ctccgattgg atacaggtaa ctactcgtgg ggaagtgagg ctcttaccgg caagaccggc 300  
atcctggatg tgggtctataa tgcatacaaac aatgagcttg tgaggactca gactcttctg 360  
aagagcgcca ttgtacaagt tgatgctgct ccattcaagc agtgggtacct cactcactat 420  
ggagtggaca 430

<210> 10240  
<211> 427  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-009-Q1-K1-C7  
  
<400> 10240

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gctgggttctg gaaggaccaa atgggctctc ggctgggttct ggaaggacca aatgaaaaaa 180  
aggggtgtgct gttcttgaac aggggacctg cctgaaattg gcttagaaca agcaatcaag 240  
tatctatcaa ctacactgtc attattgtgt gatcttgcga atttgctctt gcgaaacatg 300  
gcaagttcat catttcttct gcatggagtt ggtgttgccc accccttctg gctagttcct 360  
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acttcag

427

<210> 10241

<211> 98

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-C8

<400> 10241

aaaaaaaaa aaaaaaaaat aaaaaaaaaa aaaaaaaaaa taagaaaaag aaaagagaat 60

gggtaaataa agatgtaaata agtgtatata tggatata 98

<210> 10242

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-009-Q1-K1-C9

<400> 10242

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ctagtgcaat taagccaagc tctgtctatc aagccagcct aagtccgaga tctggcactt 180

ttaaagatgg ggtaccaagg gcttcatgtg caaggggtgt tgggaggac aagctgaagc 240

gtcgtgtgga atgggttaggc ccgttaactg ctccgcttga tacgaatcct ttgacaatca 300

accctgattc tgccagtgag aagtgtgatg cagattgttc aaagaacaat gttagctcag 360

ttccgttgga cctgcctctt tcgtttaccc tgttgccctc tatttactcc cttggcactc 420

g 421

<210> 10243

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-D1

<400> 10243

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 cgctcctcct ctttctgtac cggtgctgca gatgtgaggc tgttgagatg gagagaaccc 180  
 ttgcgatgat caagcccgat ggtttgtcag gtaagtacac agaagcaatc aaagaggcca 240  
 tcttgatttc tggatttcac atcgtcaaag aaaccgaagt ccagcttgat gctgagaggg 300  
 catctgtctt ctatgcggag catttccaaa gaagcttctt tgacagccta gtcaagtaca 360  
 taacaagtgg ttcagttctt gctatggatc tggaaa 396

<210> 10244  
 <211> 409  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-009-Q1-K1-D10  
 <400> 10244

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 cgaggacaag acaacggggc agaagaacaa gatcacaatc accaacgaca agggccgtct 180  
 ctccaaggag gagatcgaga agatggttca ggacgctgag aagtacaagt ctgacgatga 240  
 ggagcacaag aagaagggtg aggccaaaga ctcgctggag aactactcct acaacatgcg 300  
 caacacgata aaggacgaga agattgcgtc caagctgccg gccgatgaca agaagaagat 360  
 cgaggacgcc atcgacgcgg ccatcagctg gctggacgcc aaccagctc 409

<210> 10245  
 <211> 397  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-009-Q1-K1-D12  
 <400> 10245

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 cgctcggggc agcctccgga tctcaagaag tacatggaca agaagcttca gattaagctg 180



aatgcaaacc gtgttggttat tggcacactt cggggattcg accagttcat gaatctggtg 240  
 atcgacaaca ctgtggaggt caatggaaat gacaagacag atattggaat ggtggttatc 300  
 aagggaaca gtgttggtcat gatcgaggca cttgaaccag gtgccaaatc gcagtgaatc 360  
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<210> 10246  
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 <213> Zea mays  
 <223> Clone ID: LIB3059-009-Q1-K1-D2  
 <400> 10246

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 caaggggccc gggtagcca cgccgctgga ggccatggag aagggcccca gggagaagct 180  
 cgtctacgtt acctgcgtct acaacggcac tggaaattaac aagccggatt accttgcgac 240  
 ggtggatttg gatcccagct ctactacata ctcccagggtg atccacaggc tcccggttac 300  
 ccacatcggc gacgagctgc atcactctgg ctggaactcc tgcagctcct gccacgggtga 360  
 cccatctgcc aagcgccgtt tgctgacct gccttccttg ctgtcaggcc ttgtgtat 418

<210> 10247  
 <211> 437  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-009-Q1-K1-D5  
 <400> 10247

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 accataaacc tggaggttga gagctccgac accatcgaca acgtgaaggc aaagatccag 120  
 gacaaagagg gcaccccca gctgcttgcc agcgaagatc agacgctgct ggtctggggg 180  
 gatgccctct ttgtcctgga tctttgctgg caagcagctg gaggatggcc gcaccctagc 240  
 agactacaac atccagaagg agagcactct ccacctgggtg ctccgcctcc gtggtggtca 300  
 gtaagccatg gttcatttaa gctgctgctg tacctgggta tctgcgtcgt ctggtgcct 360

ctggtgtacc tctatatgga tgcgtcgtc taataaacat ctgtgggttg tgtgtcatga 420  
atcgtggttg ttgcttc 437

<210> 10248  
<211> 444  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-009-Q1-K1-D6

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gggccatcgt ctaaccactt ataactgtca ttttcaggat aatgcatttg cttataccct 180  
aacttgtaat caataccggc aacattgtca tccaggcggc atgaattagt gatccttcca 240  
gagaaacata ctatgcaaaa caaatgtcat attaataatc tagaaacaac tttgagatgg 300  
gttttatcta ttgatgagga acctgttaag aaatgtttga ttgcctgta gctgcaagga 360  
atgctaactt tnttttggtt ggtctctgcg gaggatgcca ttgtcagttg taaatattgg 420  
cagcatatta ggaaacatat tatc 444

<210> 10249  
<211> 364  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-009-Q1-K1-D7

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gtgcccgccga gaagaaggca gctgatgcag ataaggaaga taagaagtga agcggctgaa 180  
gatagtaccc tgatacgggtc tattcagtca ttagtgaatg ctactactta aagtgcttgt 240  
tctatgcata ctttgcggta atggagatag atccctgaca tacattcagc tgtcctactg 300  
tttgatgccga tggactagta agctaactca aatttttaat gtgttatggg atttttgcgt 360  
atgt 364

<210> 10250  
<211> 431  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-D8

<400> 10250

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tgaggttctg aagcagaagg gtgtctacaa tccaagaag cttttcgggg ttaccaccct 180  
ggatgttgtc agggccaaca catttggtgc gcagaagaag aaccttaagc tcatcgatgt 240  
tgatgtccca gttgttggtg gccatgctgg aatcacaatt ctgccactgt tatcgaagac 300  
caggccatct gtcaccttca cagatgagga aactgaggag ctgacaaaga ggatacagaa 360  
tgccgggaca gaggtgggtg atgccaaagc tgggtgctggg tctgctaccc tgtccatggc 420  
ctatgccggt g 431

<210> 10251  
<211> 201  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-E1

<400> 10251

cggacgcgtg ggtttttttt tttttttttt tttttttttt tttttttttt aatttttttt 60  
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tgttgagatt acaattattg catctgcaa acgagtactt caaacatata agggacaaat 180  
gattacaaaa gtaaactaga c 201

<210> 10252  
<211> 416  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-E11

<400> 10252

cccacgcgtc cgccccacgcg tccgcggacg cgtgggcagg aatgggcctg tggacattgc 60  
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 gtccaagggg atggagcatg tctgaagtct caggaaacgg gcaaaccaag tcgttcaagg 180  
 gccagatcgt ggggcttata tacgctacgc agtttctgcg gatgccctta attgctctca 240  
 acgttctcat catcgttgtc aaattgggtg ctggctgagc ctgatgaatt ggtatctgtt 300  
 ccacctttat gtaagagctg agagatccca aatttaattg tactcaaggt tgctgtaaatt 360  
 atgctgcttc tgttgattct aatgtggatt tctgttattg ttgtcgtaaa ttaatt 416

<210> 10253  
 <211> 445  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-009-Q1-K1-C6  
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 tccgcagcct acctatccgc ttcccggagc ttgcgcgacg agaagcgccg ccgccgcggg 120  
 cagcctgtgc cctcttcttc accagttcct tcggcaagcg ccaccccgac ggctctctct 180  
 tcgtcgcca cctcgactgc tccgttcgcg caccgctcgc cgtcgtctgt tcttggaacc 240  
 gccaccaagg aggcgcgcgt gaaccgcgag tcccggagc tggtcgagc accaacgctc 300  
 gtcccgccgt ccgatgagtc cgcggagctg ccggacgacc cggagttcta ccaggacctt 360  
 ctccgcggcc tgcagctgcc agacatcagc ccgatggact tccgtgccgg gcttgacgct 420  
 ctggacgtct ccgatgcgcc cttcg 445

<210> 10254  
 <211> 388  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-009-Q1-K1-B3  
 <400> 10254

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ctgggtgtgat gattcctgtt ctctatgtaa tggaaatgcgc aatttcaggg aagattctat 120  
 gggtcattgac gttggagaac caaccgactg ggtgaaaatc aatgtgcggc agactaaaga 180  
 ttgctttgaa gtctatgcac tagttcctgg acttctacgt gaggaggtgc atgttcaatc 240  
 aaatcctgct ggacgtcttg ttattacagg tgatccaaag cagcccgata atccctgtga 300  
 gatcactccg ttcaagaagg tggatcaactt gccatcaaga atcaatcctt accaaacatc 360  
 cgctgttgct acgcttcatg gtcagctg 388

<210> 10255  
 <211> 399  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-009-Q1-K1-B6

<400> 10255  
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 gacgtcgaca ggcacaacgt ctgcgccatg gaggtgaggc acagcgtcga acggctggac 120  
 caggccgacg tctacagccc tggggctggg aggatcacac gcctcaccag ccacaagttc 180  
 cccgtcctca acctcgtaca gatgagcgcg gtgcgggtag acctgtacca ggacgccatc 240  
 atgtcgccgt tctggaactt caacgcccac agcgccatgt acggcatcag gggcagtgca 300  
 aggggtccagg tcgtcagcga caacgggacc acggtgttcg acgacgtgct ccgggcggtg 360  
 cagctgctca tcgtacccca gggctacctc gtcgccacc 399

<210> 10256  
 <211> 417  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-009-Q1-K1-B7

<400> 10256  
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 accaggccaa ggaggccatc ctggcgcgcc gcggcccggg cgccgacggc ctcgccacgc 180  
 acgtggccgc cagcttcacc gccggcatcg tcgccgccgc cgcgtccaac cccgtcgacg 240

tcgtcaagac gaggatgatg aacatgaagg tggcgcccg cgcgcccccg ccctacgccc 300  
 gcgccgtcga ctgcgccctc aagaccgtca ggtcggaggg acccatggcg ctgtacaagg 360  
 ggttcatccc caccgtgatg cgccaggggc ccttcaccgt agtgctcttc atcacgc 417

<210> 10257

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-B8

<400> 10257

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 ccgccagcct gctaacacca aactgtctag caataagaca gtgaggaggg tccgtgtccg 120  
 tggaggcaac gtgaagtgga gggctctccg attggataca ggtaactact cgtggggaag 180  
 tgaggctctt acccgcaaga cccgcctcct ggatgtggtc tataatgcat caaacaatga 240  
 gcttgtgagg actcagactc ttgtgaagag cgccattgta caagttgatg ctgctccatt 300  
 caagcagtgg tacctcactc actatggagt ggacatcggg aggaagaaga aggtgcctgt 360  
 tgctaagaag gatgcgactg agggacaaga ggggtgaggct atagct 406

<210> 10258

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-B9

<400> 10258

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 tatgctcctt ggtctttctg caagtgtgctg taccgcaacc attttccac aatgctcaca 120  
 agtcctata gcttcctttc ttccccata cctctcacca gcggtgtctt cagtatgtga 180  
 aaacccaatt cttcaaccct acaggatcca acaggcaatc gcagcaggca tcttaccttt 240  
 atcacccttg ttctccaac aaccgtcagc cctattacag cagttacctt tgggtgcat 300  
 gttggcacia aacatcaagg cacaacaact acaacaactt gtgctaagaa accttgctgc 360  
 ctactctcag caacagcagt ttcttccatt caaccaactg gctgcattga actctgctgc 420

tta

423

<210> 10259  
<211> 294  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-009-Q1-K1-C1  
  
<400> 10259

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accgtatctg gcgggtccct gatcagcctc atgagagcca tgaacgagta aactggagct 120  
taaaaaactg catgggtctct ggagcattct acacgctggc gcaccgcaca cctgtagcgc 180  
tgacacaagc catcgccgac ctgaacatga gatgaaccat gatgagcttt tgccatactt 240  
ctagcgatac aagtgacttc gaactatata tccgaaattg ctagtgcaag ggcg 294

<210> 10260  
<211> 208  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-009-Q1-K1-C10  
  
<400> 10260

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gaatattttac agctccagtc agatctttcc aaaactttca ggttccgtgc ctccgctgct 120  
agtgcatta aaccaagctc tgtctatcaa gccaggctaa gtccgagatc tggcacttat 180  
acagatgggg taccaacggc tccatgtg 208

<210> 10261  
<211> 428  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-009-Q1-K1-C12  
  
<400> 10261

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tgggacttta tggacaaaga gcaggatgcc tgagtatttt gtgtgaggat gagatgcaag 120

cagttgctgt caagagccaa ctgcaacaga tgcgaagacc aatgtacagc aacccacctg 180  
 ttcattggtgc actggttgtt tctataatcc tcagtgatcc agaattgaag agtttgtggt 240  
 taaaagaagt caagggatatg gctgatcgta tcattggaat gcggaaggca ctttaaggaaa 300  
 atcttgaaaa gctaggttca cctttgtcat gggatcatat cactaatcag attggaatgt 360  
 tctgctacag tgggatgaca cctgaacaag ttgaccgttt aacaaatgaa taccacattt 420  
 acatgacc 428

<210> 10262  
 <211> 443  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-009-Q1-K1-C4

<400> 10262  
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 cgcgggcggt gctgctgaca ggggtgttgaa ccagctgctt actgagatgg atggcatgaa 180  
 tgccaagaag acggttttca ttatcggcgc gactaacaga ccagatatca ttgaccctgc 240  
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 caggettcag atcttcaaag cctgcctcag gaagtctcct gtggctaagg acgttgactt 360  
 gcatgctctt gccaaagtaca cccagggttt cagcggagca gatatcaccg agatctgcca 420  
 gcgtgcgtgc aagtatgcca tca 443

<210> 10263  
 <211> 376  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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<400> 10263  
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 gcagatgcc tgccctgcg cggggctgca gggcttgtag ggcgctggcg ccggcctgac 120  
 gacgatgatg ggcgccggcg ggctgtaccc ctacgcggag tacctgaggg agccgcagtg 180



cagcccgtg gcggcggcgc cctactacgc cgggtgtggg cagccgagcg ccatgttcca 240  
gccgcttccg caacagtgt gccagcagca gatgaggatg atggacgtgc agtccgtcgc 300  
gcagcagctg cagatgatga tgcagcttga gcgtgccgct gccgncagca gcagcctgta 360  
cgagccagct ctgatg 376

<210> 10264  
<211> 283  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-H12

<400> 10264

ggccggaagc ggggcgacca gcagcggacg gcagcacgaa aggaaaccaa agccaaacaa 60  
cgaaaaaaga gaggaacaaa gcgggacaaa aggaacagga aacccaaccg gaaaaggggc 120  
cgcaaagaaa caccaaagcc aggcaaagag aagaagcgac gaaaaaagaa gaagaagaaa 180  
caacacaaaag aggccacgga gccaaaacca aaaagggagg aagccagaaa caacaggacc 240  
aagaaccaaa acaggcaggg caccagaaac ccaaggagga agg 283

<210> 10265  
<211> 364  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-H9

<400> 10265

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gaccgacctt cggttccagt cctccgctgt cgccgcgctg caggaggccg ccgaggcgta 120  
tctggtgggt ctctttgagg acaccaacct ctgcgccatc cagccaaga gggtcaccat 180  
catgccaaag gacatccagc tcgcgcgccg catcaggggc gagagggcct gattgctgct 240  
ctgtcttcct gttttctgtaa tgtctgaact aggetatgga ctctatcgct tcttgttctg 300  
caatcgttgt accgatgttc ttggcatatc tatctggctg ttttaattaat atttattttg 360  
ggct 364

<210> 10266  
 <211> 310  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-009-Q1-K1-A1  
  
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 gcgcccgggtg ctggggcgca gagaccatct gatggtggaa acaccggaaa taagagcgtg 180  
 ccgctgtgtg ttttctttga aggaataaaa atggtgttcg tgttgtgcat tgcttaaaat 240  
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 ttttatcttt 310

<210> 10267  
 <211> 398  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-009-Q1-K1-A10  
  
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 ccccgatgat cccaagaatt tcagaaaaac gattgggaga atagtgtcaa ttcaatacca 180  
 gataccagag tatgtccaca tatcccagga ttgcagacag ctccttgcta ggatcttcgt 240  
 cgcaaatacct gcaaagagaa taacaattaa ggagattagg aatcacccct ggttcctgaa 300  
 gaatttgccc agagagctta cagaagctgc gcaagcgaag tactacaaag aggacaacgg 360  
 tgccccacc ttctctgatc aaacagtcga agagatca 398

<210> 10268  
 <211> 428  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-009-Q1-K1-A11

<400> 10268

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ggcaagtcca ccaccacagg acacctgacg tacaagcttg gaggcattga caagcgtgtg 180  
atcgagaggt ttgagaagga ggctgctgaa atgaacaagc ggtccttcaa gtacgcatgg 240  
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aagtttgaga ccaccaagta ctactgcacg gtcattgatg cccctggaca cctgacttc 360  
atcaagaaca tgatcactgg tacctnccag gctgactgtg ctgtccttat cattgactcc 420  
accactgg 428

<210> 10269

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-A12

<400> 10269

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ataagatgct tgaagacaag aacactataa ccgttcogga ccatgtccat gatgactctg 120  
accagcgtat cagatcagga cacctgagat acatgctacc acgcatagga catcgtgtga 180  
tccataggct tgagaaggag gctgctgcaa tgaacaagcc ggacttgatg tgcacatggg 240  
tgcttgacaa gctcaacgct tagactgaaa gaggtctcac cattgacatg tg 292

<210> 10270

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-A2

<400> 10270

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cgatactatg aagatggaca cagatgatgt gccaaagtgat cctgctgctg gatctgatgt 120  
gactatgcag gagcagcctc ctgcagctgg aaatggagca caagataatg aggaaaagtc 180

tgtttcgatg gaaactgatg caaagggttga gccgtcaaaa aagaaagtta agaaaactac 240  
 tgttccggtc catgagttgg tctatggggc cttggctgca gctgacctgc agaaggctgt 300  
 agagaaagag tatgagatgg ctcttcaaga cagagtaatg gaagaaacat aggagaagaa 360  
 gaatgctggt gaagcttatg tgtatgacat gcgtaacaag ctatatgaca agtacagtga 420  
 ttttgtcaca cctgaagaca aggaaagttt gg 452

<210> 10271  
 <211> 447  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-A3

<400> 10271

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 ctctagtatc aagtgtttct tgtacacaga caggcggctg cagctgtggt caacaacaaa 180  
 gccatgagca tcaacatcat gcacaacaac atcatccaca aaaacaacaa catcaaccac 240  
 caccacatca tcaccagcag cagcaacacc aacaacaaca agttcacatg caaccacaaa 300  
 aacatcacca acaacaagaa gttcatgttc aacaacaaca acatcaaccg caggaccacc 360  
 accaccaaca acaacaacag caccaacaac aacttcaatg tgaaggccaa caacagcatc 420  
 accaacaatc acagggccat gtgcaac 447

<210> 10272  
 <211> 163  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-A4

<400> 10272

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 accggacacg aggctaggct gggcatggag ggaatcgtga cgggccgaaa gaagtcctg 120  
 ccagagacag ctaacggggc tgtcgacatc gggaagcgt cca 163

<210> 10273  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-009-Q1-K1-A6

<400> 10273

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aaggaggagc cagaagctga ggattggacg atactcgcag cattttgttg acctactgac  120
aatggaggaa aatgcagttc aatatttgtt gaggcttcac ccggaccagg agggaatgag  180
caaagcagag gctgtccgcg ctaagctcgg gaagtttggg ttacctggac acaaccatct  240
cacgccaatc gttaaactat ccggcgggca gaaggcccg gttgtgttca cctctatatc  300
aatgtctcag cctcacatac tcctgctcga cgagccaacg aaccacttgg acatgcaaag  360
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<210> 10274  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-A8

<400> 10274

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ggcgcaaggc cttcctgcac tggtagaccg gcgaggggat ggatgagatg gagttcactg  180
aggccgagag caacatgaac gatctggtcg ccgagtacca gcagtaccag gacgccaccg  240
ccgacgagga gtacgaggac gaagaggaag aggagaacgt ggcagaatag ccatgacctc  300
cggtgccctt tttcagggcc accgcattcg acaggttggt tctctgtgaa tgagtttgtt  360
tgtttctttt ctctgcttct cgtggcttgc gtcattgga                                         398
  
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<210> 10275  
 <211> 339  
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-009-Q1-K1-A9

<400> 10275

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ggcgtgctgt atgccaaaga ggactacaac ctggcgaagc acccgcatat cgatgtgccc 180

aacctccagg tgatcaagct catgcagagc tttaagtcca aggagtatgt tagggagacc 240

ttctcctggc agtactacta ctggtatctc accaaccgatg gcattgagca cctacgcaac 300

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<210> 10276

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-H11

<400> 10276

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gaggcaacag cagaggcgat gaatgaggcc atttcaatgc cagaacagga aaaacagttg 180

aggcatgaga aacattaccg ttatgtcagc agccatgatg ttgcttattg gtcaaagagc 240

ttcatcctag acttggaag ggctttagg gaccacttta agaggacatg ttggggcata 300

gggttggtt ttggtttcag ggtggtggcc ttggacgctc atttcagaaa gcttaacatg 360

gattcaattg ttaatgctta tgagatttca gggagcaggg ctatattgct tgattatgat 420

ggaacactg 429

<210> 10277

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-F11

<400> 10277

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 attcttgtga agagagacga gctgaccctt gagggattta agcaggtcta tgtgaatgtg 180  
 gacaaggaag actggaagct ggacacactg agtgacctgt atgagaccct ggccattatc 240  
 cagagtgtca tctatgtcaa caccgacgc aaggtggact ggctcactga catgatgagg 300  
 agcatggacc acaccgtttc tgtcactcat ggtgtcatgg 340

<210> 10278  
 <211> 432  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-008-Q1-K1-F12  
 <400> 10278

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 cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata 180  
 gcttcagtat gtgaaaaccc agctcttcaa ccctataggc tccaacaagc aatcgagca 240  
 agcaacatac ctttatcacc cttgtttcaa caatcgccag ccctatcttt ggtgcagtca 300  
 ttggtacaaa ccatcagggc acagcagctg cagcaactcg tgctacctgt gatcaaccaa 360  
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<210> 10279  
 <211> 327  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-008-Q1-K1-F6  
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 ggtcaagagg ccacaatgca cacacgtac aagctccagg atcacacagc acctcccacc 180

agggacttca aggggctgcg aacacccagg agggcaagcc tataggcgac aacaggcaag 240  
ggcggcgaga gagggacaac aaccaaaggc ccagtagcaa caacaatccg gggcacatct 300  
aacgaaacaa accaggggag cgcaaca 327

<210> 10280  
<211> 354  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-008-Q1-K1-G10  
<400> 10280

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caccaggacc cttgttcgcc gccgccgcct ctgatctccg cgaggttgctc aggattcaat 180  
atgtcgacca gcacattcgc tacttctcgc acgctgttgg gcaatgttag aacaacgcat 240  
gccttcaga cagcggtgaa gagcccttcg tctctaagct tcttcagcca agttacgaag 300  
gttccaagcc tgaatacctt caagaaactg gatgtctccg ccatggctgt atac 354

<210> 10281  
<211> 390  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-008-Q1-K1-G11  
<400> 10281

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tggtctgccg gatctactat ccgacgcgcc actgtttgcg ctgtgcttaa ggtcctactc 180  
accggtcttc tcgtcgacag cgccagtcgt gtctcccgcc acaccgacac tttttctcca 240  
tcgtctgact ccgtgctcag cgctctcacc atcaccgcgt ctctcctcgc cgggtgttcgc 300  
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cagcccagcc atcgtctacc tctacgttta 390



<210> 10282  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-008-Q1-K1-G12  
  
 <400> 10282  
  
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 acggagagca aggacgtggg caagggcttc cgctgcatcc gcatgggtcaa caacacccgc 180  
 ctcaacttcg acgccttcca cggcgacaag gaccacggcg gcgtgcacga cggcacccgtc 240  
 gtcttgctct ggtagtggtg caaggtcgag taccatatct gtatgatcct 290

<210> 10283  
 <211> 238  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-008-Q1-K1-G2  
  
 <400> 10283  
  
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 ccctcaaaat ctagaagaat aaagtcgccg agtatgtgca caagttagct cctcgtcaac 120  
 atgtgcgcat ttagaccgac agagtctctg tagtgaattc agctcgtgtt agctcctggc 180  
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<210> 10284  
 <211> 312  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-008-Q1-K1-G4  
  
 <400> 10284  
  
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 agatgggtat ttaagagttt tcaactggcc taccatgggg tctgttctca cagaaatcga 180  
 tactaaaaca tcgattaagg atcttactat ctgtttggac gagaagtttc ttgctgagaa 240

taggagcagt ggcccatgta gagtgggtgg ttagcagtca tctgaagttg tagccagtct 300  
gccaagagat ac 312

<210> 10285  
<211> 307  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-G5

<400> 10285

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acttagccag ctagctacag caagccgtgc ttccttcggg acacaacatc aggtgctgac 180  
ggctctaccag cagtatgcgg ctaacctcgc ttccctatta caactacaac aattggtgcc 240  
ctttgtcaaa attgatgtga cagaccagc agccttctac caacagcaca ttattggtgg 300  
tgccctc 307

<210> 10286  
<211> 398  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-G6

<400> 10286

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atgctcactt gctccaagtt ccattattac acagtctctc ccaccagtta cttcaatggg 180  
cttcgaacac ccagctgtgc aagcctatag gctacaacaa gcaattgcgg cgagcgtctt 240  
acaacaacca atgtaccagt tgcaacaaca atccttggca catctaacaa tacaaccat 300  
cgcaacgcaa cagcaacaac aattcctacc agcactgaac cacctagtca tgggtgaacc 360  
tgccgactat tgcaacagca gttgcttgca tcaaacc 398

<210> 10287  
<211> 248

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 10287  
  
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 gacaaacgag cgtcactcgg atagaaggcg acggaacaca taagacaaac acgggacgga 180  
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 gaggaaca 248

<210> 10288  
 <211> 437  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-008-Q1-K1-E9  
  
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 tatccaccat actatccacc cccaccacca tacggtggct acatgcctcc accgcgcatg 180  
 ccctaccacac cgcaatatcc gccttaccag ccgatgctag ctcaaccagc acaggtacag 240  
 gctagttcat ctcggaacc accgcatgca ggtggagggc agcagcagcc gcctgatggc 300  
 cctccagctc agcagcagcc acagcagcca attcagaact gaagtcctgt caagatgttg 360  
 ggtattggta ctgctctaac tgctcggcag gagaatgcaa cccccgtggg tcaccagctt 420  
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<210> 10289  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-008-Q1-K1-H10  
  
 <400> 10289

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 gcggaataact gtgacttatg cgcttggggc tttgtattac ctttgtaacc cttcgacaaa 180  
 gaaggagatc ctgaaaccag atgtagttag tactataaga gagtatgctt cagctggaac 240  
 tgtgaataac aacttttagca atctggctaa tgctttcttg gagaaacatg ttgatccatg 300  
 atatgacaat ttacagggt agactaaagc ttacacattt cgtgtacctg tgggtgtttc 360  
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 cacgatgct 429

<210> 10290  
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 <212> DNA  
 <213> Zea .mays  
 <223> Clone ID: LIB3059-008-Q1-K1-C12  
 <400> 10290

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 cgctcaggaa gccacagtat cagttatgtt atgtggatcc tgggaattgct agttcagaag 180  
 agatggagca actgaagact attgatagta tgcttgtcag gtttttaggtt cctgaaaaca 240  
 ggatgaggat tatatgtgtt ttgcacacag ggcacttccc tgggtgaaga aacatgaaca 300  
 tctaattccat tgtcgaacgg tgcgctgtac gaatgactca tcatggatgg gcctgcagaa 360  
 agatctttga cgcttgtcta actgaatctg ttttcatact ggatttactg ttttttttag 420  
 gtcctttt 428

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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-008-Q1-K1-C7  
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gtttcttaca ttcaaccaac tggctgcatt gaactctgct gcttattnag ggcaacaact 120  
accattcagt cagctagcga gtgcctaccc tcagcaagtt catacattca accaactggc 180  
agcattgaac tctgctgctt atttacaact gcaacagcta ccaccattca tccagctagc 240  
tgatgtgagc caaagtgcct aaatgacgca acaacagatg ttgacgttct acctgcacgc 300  
tgcgcc 306

<210> 10292

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-C9

<400> 10292

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gagacgagac ggatggcgca tgcacggtg tgggtggatcg gcgcggcatg tgtgtgtggg 180  
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ttttatatat ttttcttttt tttttatttt cttattcttt attttttttt ctgttttatt 360  
tttgtgtata tttttataat tataattttt gttatttttt ttcttttttt tttttttatt 420  
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<210> 10293

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-D11

<400> 10293

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tatggaaaac gtgagtacta gttacgctac aggtatctag gatgtcactg aagcttatgc 180  
ggcagctatg cgaagtgcct tcgtcgacaa gcaggactac ctgctaaatc agaagtcctt 240

acaggagaag gtcaagtga tatacatata gctcaacttc

280

<210> 10294

<211> 178

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-008-Q1-K1-D12

<400> 10294

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gagaaggaca cgggtgtggtt tgtgcaattc tgcgtcccct ggtgtaaaca ctgcaagaac 120

cttggaacac ttatgggagg actctgggaa agtngttatg tgaaagggtg ccggatga 178

<210> 10295

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 10295

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caactcaage tcacatgccc ccactctggac caccaggagt attagcaggc ccagctcccc 180

aaaccttaat tagcaactct agttttggtg ttccttcaca gcagcctcac cagctctatc 240

aatcagccgc acatccaagc catttcataa tgcagcaagt tccgaacagc atgcccatgc 300

ccgagcaaca acctaatagc atgcttgtaa cgcaacaagg tttgtgatac ctnagccaa 360

acacctcacc ttcatacggc tccgttgggg gtagtaatcc attcgggtaa aagaagtgtg 420

ggaataacctg ctctttcatc tttagact 448

<210> 10296

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-E10

<400> 10296

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tgtcaagtag cactagatgt gtgacatgta ccagtgatac tcttgatttg gacctgggct 180  
taacattatg cttcagcatc tggggctcga ataggcgatt agaacatgct actagaatag 240  
ccgaaccgga tatgtatgaa caatgtgaac attagaacag cttttgctta tgggtgct 297

<210> 10297

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-E11

<400> 10297

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cgcgatggat gggcttctga aaatattcaa ctcgtatgta aacttgctca taatggaaac 120  
tggttggtgt aagtccgagg caactggccg aatgtaattg aggagcatca tctaagtact 180  
cggggaactc tcaggtaaac gacatcctgg acattggctg ctctgttgga gtaagcacca 240  
gatacctcac cgagaagttc ccatcagctc aagctgctgg gctcgaccta tcaccgtact 300  
ttcttggtgt ggcggcacia aaggaagaaa aactgtcacg gccaaagcct attcgctagg 360  
ttcatgccaa tgggtgaagcg accgagctgt cttcagattt atttaacctt gtcttccttg 420  
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<210> 10298

<211> 217

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-E4

<400> 10298

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tccaggccgg gcatgaagac cagcggcaag atcatccacg ccaggctgca tgctcaggct 180

catacgctgg ctgccttggc tgggtccgcg ctggtgg 217

<210> 10299  
<211> 304  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-E6

<400> 10299

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ggcatgtaat cgtgttagaa tgaaggatgc aagggtgcga tggagtggag gtcaatcggc 180  
gtgtgatgcc acgtcactag cttagctgta gatggtttgg tggacttttg aggaacagat 240  
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tcca 304

<210> 10300  
<211> 449  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-C11

<400> 10300

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caacaattgc aacagtttct accagcgtc agtcaactag ccatggtgaa ccctgccgcc 180  
tacctacaac agcaacaact gatttcattc agccctctcg ctgtgggttaa tgcacctaca 240  
tacctgcaac aacagttgct gcaacagatt gtaccagctc tgactcagct agctgtggca 300  
aaccctgctg cctacttgca acagctgctt tcattcaacc aactgactgt gtcgaactct 360  
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gtcgtgcct ttctacagta gtaacaatt 449

<210> 10301  
<211> 425



<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-008-Q1-K1-E8  
  
 <400> 10301  
  
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 gcaccccgat gcttgccttc gacgcaattg gacaagtga agatgaaata tgcatttatc 180  
 tcagatgggt gcttactgag agaatgcaac atcgagcatt ctgtgattgg agtcgggtca 240  
 cgtgtcagct ttggatgtga actcaaggac tccgtgatga tgggagcgga cacctatgaa 300  
 actgaagaag aagcttcata gctactgtta gctgggaagg tcccaggtgg aataggaagg 360  
 aacacaaaga taatgaactg tatcattgac atgaatgcta ggattgtgaa gaacgtgggtg 420  
 atcac 425

<210> 10302  
 <211> 434  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-H9  
  
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 tggatctgta caggtattag cggctacaca aatgcctgaa gagccagctg gatggttcca 180  
 ggttacagca gactctatca gaaaatttat ctgggtactc gaggattatt acagtcacaa 240  
 atccattgac aacattgtaa tcttgagtgg cgatcagctt tatcggatga attacatgga 300  
 acttgtgcag aaacatgtcg aggacgatgc tgatatcact atatcatgtg ctctgttga 360  
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 <213> Zea mays

<223> unsure at all n locations  
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ctcacaagct cctatagctt cccttcttcc cccatacctc tcaccagcgg tgtcttcaat 180  
gtgtgaaaac ccaattgttc aaccctacag gatccaacag gcaatcgcaa caggcatctt 240  
accattatca cccttggttc tccaacaacc gtcagcccta ttacagcagt tacctntggt 300  
ccatthttgtg gcacaaaaca tcagggcaca acaactacaa caacttgtgc tagcaaacct 360  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-A12

<400> 10304

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tgtccttggg tttgctttgc tggctctctg ttttcgtctc tcgtgttgc tttaatctgg 180  
cacaggtttc taaaaaaaaa atttgattct at 212

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-A8

<400> 10305

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agctactgtt agctgggaag gtcccagttg gaataggaag gaacacatag ataaggaact 180  
gtatcattga catgaatgct aggattgggg agaacgtggt gatcacaac agtatgggca 240  
tccaagaggc tgatcacccg gaagaagggt actacataag gtctggaatc gtggtgatct 300  
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<210> 10306

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-A9

<400> 10306

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gagttgttta ccgggttgaa gcgctaaaaa ggctatcggt ctctgacaag gttactatcg 180  
ttcttcctgc cactgggtcaa actgaagaag ttgaagtcag ctacgataca tgagaggagg 240  
cagagtcacc atcatcatgg ggctaacca caactgctgt tatgctcaca tgcattcattg 300  
tgacaatagt cactgttgca cttttcatta agttgctgct gagacctatc agacatgcac 360  
tatcagggag catgacagca ttcataccat ctcgagcact aataatttga t 411

<210> 10307

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-B11

<400> 10307

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agtcaactag ccatgggtgaa ccctgccgtc tacctacaac tactttcatc tagcccgctc 180  
gcggtgggca atgcacctac gtacctacaa caacagttgc tgcaacaaat tgtaccagct 240  
ctgactcagc tagctgtggc aaaccctgct gcctacttac aacagttgct tccattcaac 300  
caactggctg tgtcaaactc tgctgcgtac ctacaacagc gacaacagtt acttaatcca 360

ttggcagtgg ctaaccatt ggtcgctacc ttcctgcagc agcaacaaca attgctgcca 420  
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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-008-Q1-K1-B12  
  
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aagtaggttc tggagatgct accgtaatgg aaacatattg caagcatgag tccttagcat 180  
acggtgcaga ttggcagaaa agtgaagagg tggagcaaaa tggaaattct tcagttgttg 240  
ctacttgtgc gttttatgat cgccttctcc gtgtgtggca accagagaat ctagctgagc 300  
tttaaagacc taaagctttt tttgaattga attcaagcat gactaggtct tgaatcttat 360  
tccttgaatg 370

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<211> 62  
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<213> Zea mays  
  
<223> Clone ID: LIB3059-008-Q1-K1-B5  
  
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gg 62

<210> 10310  
<211> 303  
<212> DNA  
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<223> Clone ID: LIB3059-008-Q1-K1-B7  
  
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catgaaaaag gagctggagg tggagaagtt catcacgcac agcgtccctg tcgactagat 120  
caacaaggcg ttcgacctga tggccaaggg ggagggcatc cgctgcatca tccgcatgga 180  
gaactagatt tcgctgtcta gtttgagatg tggcctgggc ttgggggttaa taaatgaggc 240  
aatgctagcc tgtattttcg atggggaggt acatacacgc tggcaatgga ccgggcttgt 300  
gtg 303

<210> 10311  
<211> 205  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-B8

<400> 10311

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gaaaccaag gggaaggggg acacgacata actgaacgac ggtaaaggag aaaactagca 180  
agcgaggtag ctagacagac ggctc 205

<210> 10312  
<211> 381  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-B9

<400> 10312

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gtttggacgt ggatggctag atgctatctg ggatgcttgg catcagtgtg attggtgaca 180  
gaattgcata catgaactca tcattatgat tgctcattga gagacctgat ggaaaggggt 240  
agccaacgac gagatcccat aatgtagcca gaatgccagt ggagtgaagg atggcatgat 300  
gtctttgtgt ggattgtttt atgtgttttg gttgaatatt tttttgtttt attatctatt 360  
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<210> 10313

<211> 351  
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 <213> Zea mays  
  
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 atgccagagc ttactgaagt agcaatggcg taccgtgtcg agtacctaca cctactatca 180  
 tttagcgcgc tcgaggtggg caatgcacct acgtacgtac aacaacaggt gctgcaacaa 240  
 attgtaccag ctgtgactca tctagctgtg gcaaaccctg ctgcctactt acaacagttg 300  
 ctgtcattca accaactggc tgtgtcaaac tctgctgcgt acctacaaca g 351

<210> 10314  
 <211> 387  
 <212> DNA  
 <213> Zea mays  
  
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 agcgctgcta cctcgacttt tattccacaa tgctcacaac aatacctctc tccggtgaca 180  
 gccgcgggat ttcaataccc aactatacaa tcctacatgg tacaagaggc catccaagca 240  
 agcatcttac ggtcattagc attaaccctt caacaaccat atgctctatt gcaacagcca 300  
 tccttagtgc atctgtatct ccaaagaatc gcggcacaac aactacaaca acagttgcta 360  
 ccaacaatca atcaagtagt tgcagcg 387

<210> 10315  
 <211> 291  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-G1  
  
 <400> 10315

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agagccaaaa gcgcattgcta tttgaaaatt atggcaagaa agatccagcc tgtgtggcaa 120  
aagtgaagaa cctctacaaa gaacttgacc tagaggcggc atttcaggat ttcgagactg 180  
agagctacaa gaagctgatt gcagacatgg aagcccagcc aagcattgac gttcataaag 240  
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<210> 10316

<211> 196

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-G10

<400> 10316

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tagctcaatg ctcacatgct tctattgctt tccttcttac cctatacttt tcatcaatga 180  
tagcttttagt atgtga 196

<210> 10317

<211> 56

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-G12

<400> 10317

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<210> 10318

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<212> DNA

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<400> 10318

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ggcctggagg aagaagcgaa agtatgagct tggtcgccag ccagccaaca ccaagttgtc 180  
aagcaataag acagtgagga gggtcogtgt tcgtggaggt aatgtgaaat ggagggctct 240  
tcgccttgat actggttaact actcatgggg aagtgaagct gttacccgca agaccggtat 300  
cctcgacgtg gtctacaatg catcaaacia tgagcttgtg aggacacaaa cccttgtgaa 360  
gagtgccatt gtgcaagttg atgctggctc attcaagcag tggttcctta ctcactatgg 420  
agttgacatt ggta 434

<210> 10319

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-G5

<400> 10319

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taaggccggg gacgacgagg agttctcgga gctgtacacg ttcaagtgga ccacctgct 180  
gatacccccg accacgtcc tcctgctgaa cttcatcggt gtgggtggccg ggatctcgaa 240  
cgcgatcaac aacgggtacg agtcgtgggg ccctctgttc gggaagctct tcttcgcgtt 300  
ctgggtgata gtccacctgt acccgttcct caagggctctg gtggggaggc agaacaggac 360  
gccgaccatc gtcacgtggt ggtccatcct gctggcctcg atcttctcgc 410

<210> 10320

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-G6

<400> 10320

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acatcgcgac gactgagccg tcgaggcgct tgcaaagact gaccgttcgc gccggcttta 120  
acgcagactg catggagtac aactacagtg cctacacatg ttgtcaaacc cgcaaagatc 180  
aacttatcaa gcagacttac cggcaacagg ctgaagcttc atctaggcaa cgctaaatgc 240



atggcggttag ttcttggtag tgacagctac ttatgaggta ctgatactct tacc 294

<210> 10321

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-G7

<400> 10321

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gtctgaaact atgttgggtg tatcctagtg gttgggtgag cattaatggc tcatattttg 180

tcaggctctat gtgttgccgt gaaactttta atcaaatcag ttcactctat ataataatat 240

atattatttt tatctattgt ttttttttta tttctttttt tttttggtat ttttcttttt 300

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<211> 97

<212> DNA

<213> Zea mays

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<400> 10322

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tggcgcgcc atgtgctcgc gctggttcat gctcatt 97

<210> 10323

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-G9

<400> 10323

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cacttgctct ggcaaacata gttgcatacc aacaacaaca acaattgcaa cagttttctac 120

cagcgctcag tcaactagcc atgggtgaacc ctgccgcta cctacaacag caacaactga 180

tttcatctag ccctatcgct gtggttaatg cacctacata cctgcaacaa cagttgctgc 240  
 aacagattgt accagctctg actcagctag ctgtggcaaa ccctgctgcc tacttgcaac 300  
 agctgcttcc attcaaccaa ctgactgtgt cgaactctgc tgcgtaccta caacagcgac 360  
 aacagttact taatccacta gcggtggcta acccattggt cgc 403

<210> 10324

<211> 198

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-H1

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 tgattgatta ccttgacaga cttccagatg ttgatatggt ctttttattt gtcctttttt 180  
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<210> 10325

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-H10

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 gcacacagag atgtcgacga cggtagagccg tgcgtccctc gaccagaagc tcgccctcgc 180  
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 cgctccgcg atccccaccc tggccagcgt gcggatgctg ccatgggcca aggccaacat 300  
 caacccacc ggccaggcgc tcatcgtctc cacggtggct gggatggcct acttcatcgc 360  
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 cc 422

<210> 10326

<211> 408  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-H11  
  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <213> Zea mays  
  
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cgcaacaaat gcgttcatta ttccacaatg ctcacttgct cctagtgccca ttattccaca 180  
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acaacaagcg cttgcggcga gcgtcttaca acaaccaatt gcccaattgc aacaacaatc 300  
cttgccacat ctaacaatac aagccatcac aacgcaacag caacaacagt tcctaccagc 360  
actgagccac ctagccatgg tgaacctgc cgtctacttg caagagcagc tgcttgcac 420  
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<213> Zea mays  
<223> Clone ID: LIB3059-007-Q1-K1-F8  
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gcgacaaata ttcaagaacg gaggtagtat atgaggtagt atatgactta gacgtaactt 240  
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<210> 10331  
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 <212> DNA  
 <213> Zea mays  
  
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 aactcccttg tccaggctat tgcgttgctt cggcagaaga agagagatga tgtgctttca 180  
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<210> 10332  
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 <213> Zea mays  
  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-E12  
  
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acaaccgtca gccctattac agcagttacc tttgggtccat ttgggtggcac aaaacatcag 180  
gtcacaacaa ctacaacaac ttgtgctagc aaaccttgct gcatactctc agcaacatca 240  
gtttcttcca ttcaaccaac tggctgcatt gaactctgct gcttatttgc aacaacaatt 300  
accattcagc cagctagttg ctgcctaccc acagcaatct cttccattca accaactagc 360  
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<210> 10334

<211> 166

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-E3

<400> 10334

cggcgcgtag gcagacgcgt ctacggtacg catgggtttt agcatgtgag cggatcatgt 60  
agaggtatct acgaccatca acatgtgcat tacagggtgct acctgtggtg tatttatatg 120  
cacataccat tacgggacaa ccgctatact aacatgcgcc tgtaaa 166

<210> 10335

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-E4

<400> 10335

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tcctacggct gatcctgcta agaaacgcga tgaggagaaa gctgccaaagg agcaaacgca 120  
gtcgtaagca cggaattatc tgcaatatca ccgacgatgc gtccactaaa gcatgatcag 180  
agttagttgt atatcaatag ctaatgcac atatatcttg ttataaacct ggatcctaatt 240  
ctgtattgcc atgacatatg cattgacagt att 273

<210> 10336

<211> 388

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-E5  
  
 <400> 10336  
  
 aaacccaatt cttcaaccct ataggatcca acaggcaatc gcagctggca tcttaccttt 60  
 atcacccttg ttctccaac aatcatcagc cctattacag cagttacctt tgggtgcattt 120  
 attggcacia aacatcaggg cacaacaact acaacaactt gtgctagcaa accttgctgc 180  
 ctactctcag caacagcagt ttcttccatt caaccaacta gctgcattga actctgctgc 240  
 ttatttgcaa caacaactac cattcagcca gctagctgct gcctactccc aacaatttct 300  
 tccattcaac caactggcat tattgaactc ttctgcttat ttacagcatc aacaactact 360  
 tccattcagc cagctagctg gtgtgagc 388

<210> 10337  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-E7  
  
 <400> 10337  
  
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 tagtgtacca acaatggtag ccaaaatatt ttgcctcctt atgctccttg gtctttctgc 120  
 aagtgctgct acgacgacca ttttcccgca atgctcacia gctcctatag cttctcttct 180  
 tccccatac ctctcaccag cgttgtcttc agtatgtgaa aaccaattc ttcaacccta 240  
 caggatccaa caggcaatca cagcagcat cttaccttta tcacccttgt tccttcaaca 300  
 atcatcagcc ctattacatc aattaccttt ggtgcattta ttggcacaaa acatcaaggc 360  
 acaacaacta caacaactcg tgctagcaaa ccttgctgcc tacgctcagc aacagcagtt 420  
 acctttggtg caattgttgg caca 444

<210> 10338  
 <211> 246  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-E9

<400> 10338

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tcaagcaacc cagcacaagg gggcggtat cctgcaccac cgccatacta ccatggtcag 120  
tatccaccat actatccacc ctccaccacca tacggaggct acatgcctac accgtgcatg 180  
ctctacctac cgcaatatcc gacttaccag ccgatgctag ctcaaccagc acaggtacag 240  
gctagt 246

<210> 10339

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-F1

<400> 10339

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gggcagtcca tctccgcgat cagattcgcg agcttcggga cgctgtggg cacctgcggc 120  
aacttccagc agggaggctg ccactcggct agctctcacg ctgtgctaga gaagagatgc 180  
attgggctcc agagatgcgt cgtcgccatc ttccccgaca acttcggagg agaccctgc 240  
ccgagcgtga cgaagagggt ggcggttgag gctgtgtgct tttctgctgt ttaagtttat 300  
tctgttttta cgtcttatta ttt 323

<210> 10340

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-F10

<400> 10340

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caattgttca accctacagg atccaacagg caatcgcaac aggcatttta ccattatcac 120  
ccttgttcct ccaacaaccg tcagccctat tacaagagtt acctttggtc catttggtgg 180  
cacaaaacat cagggcacaa caactacaac aacttgtgct agcaaaccctt gctgcatact 240  
ctcagcaaca tcagtttctt ccattcaacc aactggctgc attgaactct gctgcttatt 300



tgcaacaaca actaccattc agccagctag ctgctgccta cccccagcaa tttcttccat 360  
 ttaaccaact agcatcattg aactctgctg cttatttaca gcagcaacaa ctactaccat 420  
 tc 422

<210> 10341  
 <211> 382  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-007-Q1-K1-F11  
 <400> 10341

ctagcaacat agaaagcaca atagtgtacc aacaatggca gccaaaatat tttgcctcct 60  
 tatgctcctt ggtctttctg caagtgtctg taccgcgacc attttcccg c aatgctcaca 120  
 agctcctata gcttcccttc ttcccccgta cctctcacca gcggtgtctt cggtatgtga 180  
 aaacccaatt cttcaaccct ataggatcca acaggcaatc gcagctggca tcttaccttt 240  
 atcacccttg ttccttcaac aatcatcagc cctattacag cagttacctt tgggtgcattt 300  
 attggcacia aacatcaagg cacaacaact acaacaactt gtcctagcaa accttgctgc 360  
 ctactcttac aacagcagtt tc 382

<210> 10342  
 <211> 383  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-007-Q1-K1-F12  
 <400> 10342

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 gctgccagac accaccgttt catctaccgc cttcgttcta tatgccgcct ccgttctatc 120  
 tgccgccgca gcagcagccg cagccatggc aataccccac tcaaccaccg cagctaagcc 180  
 cgtgccagca gttcggatcc tgcggcgta gcagcgtcgg cagccccgtt ccggtgccag 240  
 tgcgtctagt tcctggagca ccagtgcagc ccggcgggca ctccctacgg ctgccacaa 300  
 tgccaggcgc tgcagcaaca gtgctgccac cagatcaagc aggtggagcc attgcaccgg 360  
 ttccaggcca catacggtgt ggt 383

<210> 10343  
 <211> 384  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-F4  
  
 <400> 10343  
  
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 cgccggcgac gatccaatag ccagcagcag caggaggaca ctatgaagct tgacgtgaat 120  
 gcccttcgct acctcgccaa ggacgacttc cgcgtcctca ccgccgtcga gatgggcatg 180  
 cgcaaccacg agattgttcc agcagaactt gtctacagga tcgccagact gaagcatgga 240  
 ggcacataca aagtgctgag gaatcttttg aagaacaagc tagtgcatca tgatgccact 300  
 aaatacgatg ggtatagact ctctatcta gtttatgact tttcttgcca ttaatatattt 360  
 ggttatatatt ttttgttttt gctt 384

<210> 10344  
 <211> 471  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-F5  
  
 <400> 10344  
  
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 acgatatgtc agtgggaagga ggctactgag tttgtaacat catgacgtac aatagggcta 120  
 caattgaatt agcattatga aggtttcttc ttttcgatca tttatctggg gttactgaat 180  
 aattttcttta tataatctaaa tttgtttttt cttttttttt tttttcttat tttttatgag 240  
 acttttttct tttttgttta tatattattt ttttttttat ttttttttta ttttttttta 300  
 tttttattta ttttatattt tttttttatt tttatatattt ttattttttt attatttttt 360  
 ttaatatattt ttattttttt tttttttatt tgttatattt tatttgttta tattatttta 420  
 tatattttat ttattattag tttatttttt attttatattt attattttta t 471

<210> 10345  
 <211> 122

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-F6  
  
 <400> 10345  
  
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 ttcctgctac gatccattag ccagcatctg cagggtggaca ctattatgct tgacgtgaat 120  
 gc 122

<210> 10346  
 <211> 445  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-F7  
  
 <400> 10346  
  
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 atgctccttg ctctttctgc atgtgttgct aacgcgacaa ttttcctca atgctcacia 120  
 gctcctatag cttcccttct tccccatac cttccatcaa tgatagcttc agtatgtgaa 180  
 aaccagctc ttcaacccta taggctccaa caagcaatcg cagcaagcaa cataccttta 240  
 tcacccttgt ttcaacaatc gccagcccta tctttgggtgc agtcattggt acaaaccatc 300  
 agggcacagc agctgcagca actcgtgcta cctgtgatca accaagtagc tctggcaaac 360  
 ctttctccct actctcagca acaacaattt cttccattca accaactgtc tacattgaac 420  
 cgtgctgctt atttgcagca acaac 445

<210> 10347  
 <211> 254  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-E11  
  
 <400> 10347  
  
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 ccacgataga tgggcttctg aaaatgttca acttgtatgt aaacttgctt ataatggaaa 120  
 ctgggttgcac gtagtcctct gcaactggcc gaatgtgatt gatgtgcatc atttaagatc 180

tctgagaact gtcattgtata ctacatcttg gacatctgct gcattgttgt attatgcact 240  
atattcccta tcga 254

<210> 10348  
<211> 216  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-007-Q1-K1-C11  
  
<400> 10348

atgcattaat tgcattgccac gtatgcttta tatcaaagca catgttagagt tgtcaactgg 60  
ttctgctgat gaattcgaac taactcaaaa cattaaccga gtttgtcata ctcttggaatt 120  
tcattgctgt tgtccttgctc gtagtaagct ttttaattctc gacaggctga tgatgatgat 180  
gaccttgatc tttttggtga tgaattctgat gtggac 216

<210> 10349  
<211> 413  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-007-Q1-K1-C2  
  
<400> 10349

cggacgcgtg ggccgccggac ctggagctga agatctcgac cgcccgccag agcgagcacc 60  
agcagcaggt ccagatgggg ccatcgctgc cgccgccgcc gccgccgccg cagaggacgc 120  
cctttctggg gaccatcagg gtcacatgac atgaccggca aagacggcgg cggttagtag 180  
ggaatatacct gctggttagga gaagagcttt tgcccatctg aagctggaga aggttgcttc 240  
aaaagatagg acgggggtggg aaaactggat agaaggaagc ttttggcagc gtgtgcgtgt 300  
gtgtgtgttg ctggcacctg gcatttgcag ccgattacga ctattggctt gtgtatcatg 360  
tggtttttgt gttatattat attattgtta tttttatggt ggtatccttt att 413

<210> 10350  
<211> 440  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-007-Q1-K1-C3

<400> 10350

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tttttgagtc tgagtccttg aaatggcctg gatttgtaga gtttgatgat gtcaatggaa 120  
gggttttgac ttactctgct caagacagca cttacaaggt gtttgatttg aaaaactaca 180  
cattactgta tttggtgtct gataagaatg ttcaagaaat aaagatcagc cctgggataa 240  
tgctattgat ttatgcaaga acaagcagct cggttcctct gaagattctt tccattgatg 300  
atggtacagt cttgaagtcc ttcagccacc ttcttcctcg taacaagaaa gtagatttta 360  
ttgagcagtt caatgaaaag cttctggcca agcatgaagg agagaacctt caaatccttg 420  
atgttaggaa ctttcaattg 440

<210> 10351

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-C4

<400> 10351

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gccaatatat ttgccctact tgccttaact tgctctttca gcaaacgttg ctactcgcac 120  
tattattgca cactgctcac aacaatacct ctttccggtg acagccgcga gatttgaata 180  
cctatctata caatcctact tgctacaata ggccatcgta ttaagcatct tacagtcggt 240  
agcatagact gtcctatat 259

<210> 10352

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-C5

<400> 10352

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ctttgggagt ctgagtcctt gaaatggcct gtatttgtat agtttgatga tgtcaatgga 120  
agggttttga cttactctgc ttaagacagc acttacaagg tgtttgattt gtaaaactac 180

tcattactgt atttggttgt ctgataagaa tgtttaataa atatatatca gccttggg 238

<210> 10353

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-C6

<400> 10353

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acgtggttct cgactacgag gtaaaccaca ggagcgacct ccctccctt ccccggttg 180

gcgtcggtt cagcgccggg aggtccctga gccacgtcac gtggtacggg cgcgggccct 240

tcgagtgtta cccggaccgc atggcggtg cgcacgtcgg cgtgtacgag agcagcggtg 300

aagagctgca cgtgc 315

<210> 10354

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-C7

<400> 10354

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gtgtgggaga gtggaggatg catggaaggt ggctcaggaa atgggggggc agggactagc 120

accagtgag tttgtgttct ccgctgtgat caccgggttt tgcaagtcag gagaggttga 180

cagggcattg atggtgtggg agacaatggt ggcagctagg gtaaagccga atgttgtttt 240

gtattcagta ctgattgatg gttttgcacg gtctgggagg atgacagaat ctgataagtt 300

atgtgaagaa atggcttatg cgaaatgtat cttagatatt tggacattcg ttttaatgtg 360

tctgttattt ttttactttt ttt 383

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<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-C8

<400> 10355

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ctcgaaccct ctgcgccttg gcttgctttc actctccagg gcccactcc caccttgccg 120  
ccgcattcat ggcgatcaca gtcceaactt tttacattct ctgttagcgc cttgtcggcc 180  
tgtacttttt tattctttac gttttttttt ttttatttgt tatatttatt tttttttata 240  
tttttatttt tctattttta tttttgtttt ttttaaattt aatttttatt atttttattt 300  
attttttctc tttttttttt tttttttttt ttctttattt tttttttctt tattttattt 360  
tttttatttt tcatttttta ttttggtatt tatttatatt attttttatt ttcttttttt 420  
ttttcttatt ttttatttta 440

<210> 10356

<211> 144

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-C9

<400> 10356

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gacatttttt ccaaataaca caagcgtacg cacacataca tgcaaataaa tagcccttct 120  
atcacaacac aaaaaactaa caaa 144

<210> 10357

<211> 154

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-D11

<400> 10357

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cttgactcgg tcaccaagca caagtgaag caggatagct ggctcatcat cggcagcaag 120  
gagtatgatg tgacgcagac atgggtatac cact 154

<210> 10358  
 <211> 302  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-D12  
  
 <400> 10358  
  
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 aggtggctcg gcttcggcgg caggtaccag gacctcatcg gcaacaaggg tctggagacc 180  
 gtcaccatgg gccgcgccga aatgaccagg gccgtcaacg acctggcgaa gaagaagaag 240  
 atggcgacac tggaggagga ggaggtgcag atgcatatgc agatgctcta tgcctctgat 300  
 ct 302

<210> 10359  
 <211> 377  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-D3  
  
 <400> 10359  
  
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 aaggcgcact ttacggcccc gtcctccgtc cgccgcgttc tcatgtccgc cgggctgtcg 180  
 acggagctcc gccacaagta caacgtgcgc tccatcccga tccgcaagga cgacgaggtg 240  
 caggtcgtgc gcggcaccta caagggccgc gaggggaagg tgggtgcaggt ctaccgccgc 300  
 cgctgggtca tccacgtcga gcggatcacc cgctagaagg tgtacggctc caccgtgaac 360  
 gtgtgcattc tcccttt 377

<210> 10360  
 <211> 463  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-D4  
  
 <400> 10360



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 ggacggagaa gacatcacca caagctatcc ttgatctcat caccattggg aagataataa 120  
 agaaagtcc tattgtgggc ggcaactgct caggatttgc agtcaaccgt tcattttttt 180  
 cttacacaca gtgttcttat tttttagtta ggtcttgtaa ttgattgttt ttatatattg 240  
 tttttttatt atcattcttt ttgattgtct tttgattact ttgaaattat tttttttttt 300  
 ttttttatta gttttgtatt ttttattttt tatattttat attgttatta ttattttgtt 360  
 taatatatta tgtttttatt tatttttatt tctttttttt attattgttt atttattgta 420  
 tttgtttgta ttttaatgtt attttatatt ttttttttat att 463

<210> 10361  
 <211> 206  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-007-Q1-K1-D5  
 <400> 10361

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 aactagggcc gctgctacga cttctggctg gagttcagcg agtgcagtag ccgctgtcgt 120  
 cagcccttcg actgcggcct tcttcgcgag gactaccttg agtgcctcca ccactcctag 180  
 gagttccagc gctggtacag gatcta 206

<210> 10362  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-007-Q1-K1-D8  
 <400> 10362

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 gcgactgggt ctacgagaac aacggcgggt agacctgctg ggccatcgcc ggcgccgatt 120  
 actgtgtcgt cggggcgagc accgcctct ctgtcggata cagcatcctc acgcgcgacc 180  
 actctaagat ctgcgacctg gctgacaaat gtgtactagc atcttctggc tttcagggtg 240  
 atattaaagc tctgcacaag aacctagctg ccagagaatt gctataccaa caccagcata 300

acaaatggat gagctgccct gccatggcac aacttctctc caataccctg tactacaagc 360  
gctttctttc caatattacg ccttttaatg tgctcggagg gctttgtcag ct 412

<210> 10363  
<211> 398  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-007-Q1-K1-D9

<400> 10363

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agattatgat caaccaggct tctacatgtg acctgaaaga acttgtttcg aagttcattc 180  
cagaagttat tggttaaggag attgagaagt ctacctncag catcttcca cttcaaaacg 240  
tcttcatccg caaggtgaag atactcaagg cccccaagtt cgatcttggg aaactcatgg 300  
aggttcatgg cgactacaaa gaggatgttg gtgtgaagct tgagaggcct gtcgaggag 360  
atgaggctgg gcaggaagtt gctgctgccg agtagttt 398

<210> 10364  
<211> 238  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-E1

<400> 10364

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actctgccaaggacgaggt ggagaggatg gttggcgaag ctgataagtt tgcaaaggag 120  
gacaaggaga agcgagacgc cattgacacc aagaaccaag ccgagtcggt catctaccag 180  
accgagaagc aactgaagga actaggggac aaggtcccag gtgacgtcaa ggggaaag 238

<210> 10365  
<211> 322  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-A4

<400> 10365

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attttccctc aatgttcaca agctcctata gcttcccttc ttcccccata ccttccatca 180  
atgatagctt cagtatgtga aaaccagct cttcagcct ataggctcca acaagcaatc 240  
gcagcaagca acataccttt atcacccttg ttgattcaac aatcgccagc cctatctttg 300  
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<210> 10366

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-A5

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ggctacttaat gcactagcag ggcctaacc attggctact ggctttctac agcagcaaca 180  
attgctatcc atacagtcag ttctctttga tgaaccctgc cttgtcgtgg cagcaaccca 240  
atcgtggagg tgccattttt tagatttctt atttatatgt taatcgataa tgggtgccctt 300  
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<210> 10367

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-A6

<400> 10367

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ttactccaat tgtgacctct ggtatggtaa tgcaacttct tgtcggatcg aagatcattg 180

aagttgacaa cagtgtgaga gaggatcgtg ctctgctgaa tgggtgcacat aagttgcttg 240  
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<223> Clone ID: LIB3059-007-Q1-K1-A7  
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tttaatcatt tttcattttt tttctacatc attaataatt gct 163

<210> 10369  
<211> 417  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-007-Q1-K1-A8  
<400> 10369

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caacagctgc agcaactcgt gctacctctg atcaaccaag tagctctggc aaacctttct 180  
ccctactctc agcaacaaca atttctttca ttcaaccaac tgtctacact gaaccctgct 240  
gcttatttgc agcaacaact attaccattt agccagctag ctactgccta ctcttagcat 300  
caacaacttt ttccatttaa ccaattgtcc gtactgaacc ccgctgctta tttgcagcag 360  
caaattctac taccatttaa ccagcttgct gcagcaaacc gtgctttctt tttgaca 417

<210> 10370  
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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-A9

<400> 10370

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catcagatcg tcaccgtaga ctgccagcca tcgggtcccc agggaggcat gctcgtcttc   180
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catttgctgc cggccgctgg gtccttcttc gtgcagaatg acatgttccg cctgaactat   300
ggctaaagac acccgatact cttgtgatga aggaattgat taagggtttc atgttgaaac   360
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<210> 10371

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-B1

<400> 10371

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tatggtaccg accttcttag ttgctttttg gtgccacaag ttatgctgaa cctgttgata   180
ttttggttgt tatttgcata ttttcagtat ttttactttt gattactttt tattcctttt   240
ttttttgttt ttgtgctatt tttttttttt ttatatcttt atatttattt tatatctttg   300
tttttttttt tatatatttt gttttgtttt tttttatttt attaattatt tttcttttgt   360
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<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-B10

<400> 10372

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gtaacgggcg actgggtcat catagtgtcg aagaactcta agtgatctgg taattagtca 120

tcttgcaaca tttattgcct ttctttgggt tcacggaatt ctatcctttg ttgaaaaaaa 180

ctgttattta tgtatggttt gactgatatg ttggttattt gtaattgatt ttattgatta 240

tggtattggc tttgtattct attttttatg agtttgtttt gttaatagta ttttttattt 300

tattttattt ttgtattgtt ttatttttat ttttatttta tgattttctc ttttatttta 360

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<210> 10373

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-B11

<400> 10373

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cgttgccgca gcagtgttgc cagcagctca ggcagggtgga gccgcagcac cgggtaccagg 180

cgatcttcgg cttggtcctc cagtccatcc tgcagcagca gccgcaaagc ggccaggtcg 240

cggggctggt ggcggcgcag atagcgcagc aactgacggc gatgtgcggc ctgcagcagc 300

cgactccatg cccctacgct gctgccggcg gtgtcccca ctgaagaaac tatgtgctgt 360

agtatagccg ctggctagct agctagttaga gtcatttagc ggcgatgatt g 411

<210> 10374

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-B12

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aagcagaggt tctttggcaa gctcaaggcg taagggtgctg cgggtgcagcg aagtcccatt 120  
tctcaaaatc atcaaactgt gatacttttg tttgtaacct tgctgtacca agttttgtag 180  
ccatgggtccg gtcgtctatg gattgttcca tgcttcagaa ctgcactgtc tatgttttgt 240  
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<210> 10375

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-B2

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aaaaaaaaa aaaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaataa aaaagaaata 120  
aatatacata taaaaaaatc taaaatttaa aaatttagat attattaata tatataaatt 180  
atataaagat ataaattata ttatttatta ctatttaa atattatat 229

<210> 10376

<211> 176

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-B3

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<210> 10377

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-B4

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atctaagtta ataggcaact ggattcgaca tctgtgtcct actagttctg agcataccaa 240  
cagatttttc tatgttacta gtaattttgt ttgtcatatt tggttttttt gcaactaagt 300  
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<210> 10378

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-B6

<400> 10378

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catctaggga gccttcaaaa gttgcctacc gtgaactaga gacacccctt tttttgttgg 300  
cattggatgt gttcttactt cggtcaggga cagttgaagc gtatctagac tctagagact 360  
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<210> 10379

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-B7

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ttggtacaaa ccatcagggc acagcagctg cagcaactcg tgctacctgt gatcaaccaa 360  
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<210> 10380

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-A3

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 agtgcctaac ccattgggtca ctgccttctc acagcagcaa caattgctac catacagcca 180  
 gttctctttg atgaaccctg ccttgcgtg gcagcaaccc atcgttggag gtgccatctt 240  
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 aaataatcaa tatattgatt gacatttatc tcgaat 336

<210> 10381

<211> 449

<212> DNA

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 catccgcgga ggtgggttaac cagaacgtga taagcaacac ggacatccaa catcaacttt 240  
 catgtcagca aattgaacgc acgatgtgtc aaccatcaca ttttacacgg taactcagcg 300  
 ccgcatcatg tcatccaaac atgtcaaagc cttccccgtg ttggagatgg gagaagcttc 360  
 gggagctttt caccttcccc gggaaatgat cgattcttgg atttcgcatg atgtttccgt 420  
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<210> 10382  
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 tctaagcttc ttttttccca tacctttcat caatgatagc ttcagtatg 169

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 gactgtacca cgtgaggtgt gtccgcgttc gtacagccag ccagatcgga tcggatcggt 360  
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 <213> Zea mays  
  
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gtgggcaagt ccggaagcc gctccactac aagggtcca ccttcaccg cgtcatccc 180  
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cttcattggc caaggccggc ccaaccacca acggttccaa gtcttcatct gcaccggcgc 360  
gaccccttgg ctcgacggca agcacgttgt cttcggccaa gtcgtcgagg gcatggacgt 420  
cgtcaaagcc atcgag 436

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<213> Zea mays

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<212> DNA  
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<223> Clone ID: LIB3059-006-Q1-K1-H1

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ggcacaaaac atcaaggcac aacaactaca acaacttggt ctaggaaacc ttgctgccta 180

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<210> 10387

<211> 343

<212> DNA

<213> Zea mays

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<210> 10388

<211> 423

<212> DNA

<213> Zea mays

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 gctgagagga cgctaccata ggaatgggag caggaaccag gaggaggaga cggtagctgc 180  
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 acaagtaggc aaattcgtca acttagtggtg tcccatgttg tttttcttag tcgtcgctgc 360  
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cgt

423

<210> 10389

<211> 367

<212> DNA

<213> Zea mays

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ttaaccaatt ggccgcactg aaccccgctg cttatttgca gcagcaaata ctactaccat 180

ttagccagct agctgcagca agccgtgctt cttcttgac acagcaacag ttgctgcctt 240

tctaccagca gtttgcggt aaccccgcaa cccttttaca actacaacaa ttgttgccct 300

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<210> 10390

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-H3

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catagtacac acatacggta cagaagtga agaaacaatg ttcattggaac aaacgatgaa 180

cagcctgttt tggtcgtcgt aatctataaa aaaaaaaaa attaaaataa tataaaatag 240

aaaata 246

<210> 10391

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-H4

<400> 10391

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ccctggccag cgtgcggatg ctgccatggg ccaaggccaa catcaacccc accggccagg 180

cgctcatcgt ctccacggtg gctgggatgg cctacttcat cgccgccgac aagaagatcc 240

tgctcgctggc aaggcgccac tcgttcgagc aagcccctga gcacctcaag aacacctcct 300

tccagggcac cggccgtccc caccgggtct tcttcaggcc gtgagaccag accttcgtcc 360

agagctagct acctacctct tttttcagtt gccaatgcaa gcaccaaag cccaccgatg 420

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<210> 10392

<211> 144

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-H7

<400> 10392

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaatta aaatatattaa aaaa 144

<210> 10393

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-H9

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ttcagtatgt gaaaacccaa ttcttcaacc ctacaggatc caacaggcaa tcacagcagg 240

catcttaoct ttatcacctc ttgttcctcca acaatcatca gccctattac atcaattacc 300

tttgggtgcat ttattggcac aaaacatcag ggcacaacaa ctacaacaac tegtgtctagc 360  
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<213> Zea mays  
<223> Clone ID: LIB3059-007-Q1-K1-A1  
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<211> 351  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-007-Q1-K1-A10  
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tggtaccat gaacccatgg atgcagtact gcatgaagca acaggggggtt gccaaacttgt 180  
tagcgtggcc gacctgatg ctgcagcaac tgttggcctc accgcttcag cagtgccaga 240  
tgccaatgat gatgccgggt atgatgccac cgatgtctat gatgcctatg ccgagtatga 300  
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<210> 10396

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 agtgagtcgg cgcgacgtgc aaggcgcagc atgtgtactg tgcgcgtgca aatccagaat 240  
 gacgtagctc tgacgtgggc tcgcaatatt ctgcgctgtt cgttacaata atgataataa 300  
 ctatgaggaa taaatatggg aatgttgcca gtgccagata gtactggcgc cggttcttcg 360  
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 cgacgacgcc acaccgggcc gagccgaaac cgagactgca tccttcttag cggcgcgccg 180  
 agatgagcgg catgagctc tccatcgtc tccctcccgc cgcggcggcg gtggaccct 240  
 actacgtgta tgcggcgcac ccggaccac agcggcaggg cgtgctcacg ctcttcgctc 300  
 cggtgctact tgatgacttg aatcctcgcg agatccacaa tcttttct 348

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 <211> 247  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-006-Q1-K1-E8  
  
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tcccccttct cttcttgctg agcgccagcg cgggtgctct cagcgaactt gccccaccgg 180  
cccgcccttc ccgggcctta cctgattccc cgtcctccag cgctgggcgc tggctgtgct 240  
gcagcgt 247

<210> 10399

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-E9

<400> 10399

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cctctgggtgc catctgatcg tcccgttggt gatgttccgg ccataccatc ctggcagcag 180  
gcgtacatgg ttgacagcca aggcgcattt tctggctctc cgttcttgca gtcgaacctg 240  
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taacagattc atacgattct tgatacgtcc agcttctcgc tgtatacaca ctatcttgaa 360  
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ctttctag 428

<210> 10400

<211> 212

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-F1

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tgagatgaac ctttatatga tgcaccagat gcttgaatct tgcgacgagc gcaatgtgac 180  
tggacagagc atcaatgaga aggaccgctg ga 212

<210> 10401  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-006-Q1-K1-F10  
  
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 ctattcgcac 190

<210> 10402  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-006-Q1-K1-F11  
  
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 cggccgcaac atcacgctca acgaggccca gtcccgcggc ggccgtggag gcggcggcgg 180  
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 cggcggctac ggcggtggcg gcggctacgg tggcggcgcc ggctacggtg gtggtggcgg 300  
 cggctacggc ggtggcaacc gtggcggcgg ctacggcaac tccgacggga actggaggaa 360  
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 tcc 423

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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-006-Q1-K1-F12  
  
 <400> 10403

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 ttcaaaggcc cgttatgatg agattgccaa ggaagcccc cagtacctga atggggcttg 180  
 aaccaccaac ctggccaggc cacctggcac aaccagcgt tgccgcgagc gtcttacaac 240  
 aaccaattgc ccaattgcaa caacaatcct tgccacatct aacaatacaa gccatcacia 300  
 cgcaacagca accacagttc ctaccagcac tgagccacct agccatgggtg aaccctgccg 360  
 cctacttgca agagcagctg cttgcatc 388

<210> 10404  
 <211> 316  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-006-Q1-K1-F3  
 <400> 10404

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 aaggcgtaaa aggacatctc aggagcgctt gaatggatgt actagaagaa cgcagctctaa 180  
 tgggactact atgaagaaaa atgtacagcg tgaccaatcg ctctgaatgg attgaactca 240  
 tctgggtcat gcggaagacc aactccttcg agaagcacgt gtgagactac cagaaggcat 300  
 gcgacgtgaa cagact 316

<210> 10405  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-006-Q1-K1-F5  
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 tcgtcgtcgg cgctgccgta caagaggacg cctcctacct ggctgaagac cgccgcctcc 180  
 gacgtggagg agatgatcac aaaggcagcg aagaaggac agatgccgtc gcagatcggc 240

gtcctgctcc gtgaccagca cggatatcccc cttgtcaaga gtgtcaccgg cagcaaaatc 300  
ctccgcaccc tcaaggccca tgggctggca cccgaaatcc cggaggacct gtacttcctc 360  
atcaagaagg cggtggcgat aaggaagcac cttgagagga acaggaagga caaagactct 420  
taa 423

<210> 10406  
<211> 424  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-006-Q1-K1-F6  
<400> 10406

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ctagctactg cctactctca gcaacaacaa cttcttccat ttaaccaatt ggccgcactg 180  
aaccccgctg cttatttgca gcagcaaata ctactaccat ttaaccagct aggttgaaca 240  
aaacgggggt tctttttgaa cccacaaccg gtgctggcct tctaacaaca atttgggggt 300  
taccocggaa cccttttacc actaccacaa ttgggtggcct ttggccaact tgctttgacc 360  
gacccaacgg gcttctaaca acaacacatc attgggtggtg ccctttttta aaatgggttat 420  
taat 424

<210> 10407  
<211> 426  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-006-Q1-K1-F7  
<400> 10407

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gcctgctatg ttcccaggcc tgcgtctacg aaacgaaggg aagcacagat gggataccct 180  
tgaagacata tggaatggct tatgtgctaa agtagtctgc gacagcttgg gatatgggtg 240  
gaagaccgga ctgccttatg tgatgagaag tgatgcagaa gcaggtaaag ctctggagag 300

cttgaaagag tgggaagggg taaaagtcac ggatgatgtt ctcccattct tccagtcgct 360  
 caagctatcg aggactgcag ttactgttga cgattgtgtt aaagagcttg ctggaattgt 420  
 ccgtga 426

<210> 10408  
 <211> 119  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-006-Q1-K1-F8  
 <400> 10408

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 tccagccact cctccgacga ggtgtacctc ggccagcgcg acaccaaaga gtggacgctc 119

<210> 10409  
 <211> 258  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-006-Q1-K1-F9  
 <400> 10409

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 ttttccggtt cctaccgagg aatgcttata tataatgaac accagaggac aagtattagt 180  
 gctcaaaaaa aaaaaaata tttaaacata aaagattaaa acaaaaaaat aaaaacaaga 240  
 aagttaacct tattaagg 258

<210> 10410  
 <211> 434  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-006-Q1-K1-G1  
 <400> 10410

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caatgctcac aagctcctat agcttacctt ctttccgcat accttacatc aatgctagct 180  
ccagactgtg aaaaccagc tcttcaatcc tatacgctcc aacaagcaat cgcagtacgc 240  
tacatacctt tatcaccctt gttgtttcaa cactgcgga gtcctatctg tggggcaaca 300  
cattggtacg aaccatcacg gcacactaac tgcagcgact cgtgctacct gtgattaaca 360  
cgagttctct gtcaaacctt tctccctact ctgagcaaca acactatctt ccattcaacc 420  
aactgtctac actg 434

<210> 10411  
<211> 384  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-G10

<400> 10411

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gtccgtgtct gtgcaggctg aagaccaggc ctttcccaaa ccgaagttgg ccaaagtacg 180  
cgccaccgtc ccggtgtgag tgttcagcag tgtggttggc ggccggcata ggattcctgt 240  
gtggattcac cctaggagag atgaggggat taaggcggac gagggccac gaacgcacgt 300  
gatgccaatg tgccacatg acatggacag aaaatgtcac tgcggtggac catgcatgcc 360  
caatttaagg agcatcagtt agaa 384

<210> 10412  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-G11

<400> 10412

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ttcattgaac tctgcttctt atttgcaaca acaacaacta ccattcagcc agctacctgc 180  
tgcctacccc cagcaatttc ttccattcaa ccaactagca gcattgaact ctctgttta 240

tttacagcag caacaactac taccattcag ccagctagct ggtgtgagcc ctgctacctt 300  
 cttgacacaa ccacagttgt tgccgttcta ccaacacgtt gcgcctaacg ctggcaccct 360  
 cttacaactg caacaattgc tgccattcaa ccaacttgct ttgacaaacc cagcagtgtt 420  
 ctaccaac 428

<210> 10413

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-G12

<400> 10413

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 cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata 180  
 gcttcagtat gtgaaaaccc agctcttcaa ccctataggc tccaacaagc aatcgcagca 240  
 agcaacatac ctttatcacc cttgtttcaa caatcgccag cctatctttg gtgcagtcac 300  
 tgggtacaaac catcagggca cagcagctgc agcaactcgt gctacctgtg atcaaccaag 360  
 tagctctggc aaacctttct ccctactctc agcaacaaca atttcttcca ttcaaccaac 420  
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<210> 10414

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-G3

<400> 10414

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 aggetatcat ttccactcat tgtcagaatg accttggctc tgcgactgcc aacacactag 180  
 cgggcgctcg tgcaggagca cggcagttag aggttactat taatgggtatt ggtgaaaggg 240  
 ctggaaatgc ttctttggag gaggttgtea tggcaattaa atgccgcaga gaactggttag 300

atggtctcta tactggaatc gattcccgcc atatcacttt gacgagcaaa atggtgcaag 360  
 aacatagtgg acttcacgtg cagccacata aagctattgt tggtgccaat gcgttcgctc 420  
 atgaaagtgg aatt 434

<210> 10415  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-006-Q1-K1-E7  
 <400> 10415

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 acgctagcct ccgccgccgc cggcgacgaa tccggcgctt tgagtttctg ttgccagtgc 180  
 agccatgtcc atgttcaaca ggatcttcgg gaagcccaag gagcaggcca actccagtgc 240  
 cttggccaca ctcgacaagt taaatgagac tcttgatatg ctggagaaga aagagaaggt 300  
 gctggacaaa aaagcagccg ctgagcttga gagagccaag gagttctcca aagctaagaa 360  
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<210> 10416  
 <211> 321  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-006-Q1-K1-D11  
 <400> 10416

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 ggtgtatgat gtgacgaagt ttttggtaga ccaccagga ggtgatgatg ttctgttgtc 180  
 ctcaactggc aaggatgcga ctgatgattt cgaggatgtc ggtcacagca aactgccccg 240  
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 gaagtatgtc cccccgaaa c 321



<210> 10417  
 <211> 396  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-006-Q1-K1-D12

<400> 10417

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ccctcaact caatcgtgtg gattcccatc ttattcgcag cgatcgtacc cagtctcgcg 180
aacagtcgaa tcggtagaga tgaacgacga atcgattcgg tgcaaggcgg ccgtggaagg 240
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atgacatcaa caagtacttg ccgnggccgc accacg 396
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<210> 10418  
 <211> 349  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-D4

<400> 10418

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tgcttctgag caagttgtag atgatttggt agcaaattgga aatatggttg accttgctgg 180
ttcaaagggtg gagatcaaga aagcagaacc aaagaaatcc ttcaatgcac cgtcaccacc 240
agtgcattgtt agaaatgcta tgtcagcata tgatagcggc tctagagacc acccttcagc 300
tgacaactat ggtggaatgg ccagtgttta tggaaactta cagggtggt 349
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<210> 10419  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-D5

<400> 10419

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gattacagat ctgaagaaga gattattgat tggaagctta ttagttattg taactccctt 180  
gaaaagcagg ttgtgcgggg attattgttt attgaataaa aagtcgcga tttgattcta 240  
ctgccatacc agtatatata attgtgaatt ggcttgact tgctgctggg ggggagaggt 300  
ggaaatagct agccctcctt gaccgcgcgc gataagaatg tcgcctcttg ttctggagat 360  
tattggagag ttgaatagtt cataatcagc ctacctaca tatattgcag aaaaagtact 420  
gatcat 426

<210> 10420

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-D6

<400> 10420

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ttacagcagt taccttgggt gcatttattg gcacaaaaca tcagggcaca acaactacaa 180  
caacttggtg tagcaaacct tgctgcctac tctcagcaac agcagtttct tccattcaac 240  
caactagctg cattgaactc tgcttcttat ttgcaacaac aacaactacc attcagccag 300  
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<210> 10421

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-D7

<400> 10421

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accattttcc cgcaatgctc gcaagctcct atagcttccc ttcttcccc gtacctctca 180  
ccagcgggtgt cttcgggtatg tgaaaaccca attcttcaac cctacaggat ccaacaggca 240  
atcacagctg gcatcttacc tttatcaccc ttgttctctc aacaatcatc agccctatta 300  
catcagttac ctttggtgca tttattggca caaaacatca gggcacaaca actacaacaa 360  
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<210> 10422

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-D8

<400> 10422

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tccgtgtgaa gcagttgttc gagaagctcg gagcaagcta caaggccatt gagttggata 180  
aggaaagtga tggagctgag ctccagaatg ccctgaagga gtggactgga cagaggactg 240  
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<210> 10423

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-D9

<400> 10423

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cccgaggag agccgagatg gcgaggttgc gagaagtgag caccctgaag gggaggatgg 180  
agtcagtggg gaagcagaag ggtctggaca tcgagaccat ccagcagtcc tacaccgtgt 240  
gactggctga ccgacgacga cggggtttat agaggtttct tcttcttata ctatacaatc 300  
tgtactaggt agcaataagg atcaaggaag gaaccctat atattggctg gggttcgctg 360

gaaatgaatg atgggcatat ttatg

385

<210> 10424

<211> 194

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-E11

<400> 10424

cgcacgcgtg agacaaccac taccggttct tctgctagct ggagtgagcc ctgctaccgt 60

tttgactcaa ccacattatg cgccgtacta gcagatcgct catcctaata ctggcacact 120

gctgcaactg caacaagtgc tgcccttgaa ccaacttgct tcgacagacc caggagcaat 180

ctagcaacaa ccca 194

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<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-E12

<400> 10425

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cggcaacgtg ctgggggtcg cgaaatccct gacgtgccgg gcctgaaaat ggagcacacc 120

tctgcgaccg cagtgtctaa gcaagggcag gacaaga 157

<210> 10426

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-E2

<400> 10426

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gttgctagga aaccaccagg gtttgcttc attgactttg atgaccgcag ggatgcacaa 120

gatgccattc gtgaattgga tggtagaat ggttgaggag ttgagctgtc aactaaagtt 180

ggtggtggcc gtggccgaga ccgtaacggt tctgatatga agtgctatga gtgtggtgaa 240

gctggccact ttgcacgtga atgccgctta cggattgggt caagaggctt gggtagtgga 300  
 aggcgtcaca tccgaagtc tagatatcgc agtcgcagtc gcaaccgcag cccaagatat 360  
 cgaaggagcc caagctatag cagaagcccg cgagatcggt ctctaggag gcga 414

<210> 10427  
 <211> 140  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-006-Q1-K1-E5  
 <400> 10427

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 atggtgtata tttgttggtc 140

<210> 10428  
 <211> 367  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-006-Q1-K1-E6  
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 caggggtctc cgcaaagtgt cttgtatcgg tgcattggcat cggctagggt tctcctatac 180  
 gggtgcccgt gctggtcaaa atgggtacca ccaccgcact gagatgaaca agaaggttta 240  
 caagatcggc aaggctggac aagagaccca cgatgcctnc acagagtttg acaggactga 300  
 gaaggacatc actcccatgg gtggcttccc ccattatggt ttcgtgaaag gtgactacct 360  
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<210> 10429  
 <211> 395  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-B2

<400> 10429

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tgcggctgcc agccaaactt ctgctgcagc aagttcggct actgcggcac gaccgacgcc 180  
tactgcggcg acgggtgcc gtcgggcccc tgccgctcgg gcggcgccgg cggcgccggc 240  
ggcggcagag gcggctgagg cagtggcggg gcgaacgtgg ctaatgtggt caccgacgcg 300  
ttcttcaacg gcatcaagaa ccaagccggg agcgggtgcg agggcaagaa cttctacacc 360  
cggagcgcgt tctgagcgc cgtcaacgcg taccc 395

<210> 10430

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-006-Q1-K1-B4

<400> 10430

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gaactggcca taggagagca aagaggaagg ggaggccacg agggcgccag tagatatatt 180  
catcttcacg tcggcttgcg atatttttga attntctatt ccgtattgaa ggcgtcgatg 240  
gccttgctcg ccctaactcag caccctcctc gccgcccga tctggtgcgc cgcttacctc 300  
gccgctgcca tctcctccgc cttctgattc ccactcccca ctccccaacc ctaacctccc 360  
ccctgtagca cccccacct ccagctttgt aggtcctact atacttgcaa cctctccgcg 420  
cgactcgctt cga 433

<210> 10431

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-006-Q1-K1-B5

<400> 10431

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agtggctggg ggaaaccaga aacaaaatat actaaaaatg gtcttggtgc acctgggtggg 120

caatcatgga cagttgaatg gctgaggttt gataacagtt acttcaagga tatcaaagag 180

aaacgagatc aggatcttct ggctctacct acagatgctg ctttatttga agacccaaag 240

ttcaaggtct atgcggagaa atatgcagag gaccaagacg cattcttcag agactacgct 300

gaggctcatg ctaaactgag cgaattgngt gcatagttcc aaccaccgca gggattctct 360

ttggatgatt agtgcggcac cagaaccaca g 391

<210> 10432

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-B7

<400> 10432

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agggaccata attctatcat tccaagccgt gaggagtga ctgaagaatt aagaaataaa 120

gttgcataata gtgaggaaga agcttacagg ttgtactgtg actatgggca ccgcatgggc 180

tttagtggtc gaaaaggaaa gcagtactac ttactggaa ccaaaccat ccgtactaaa 240

gattattact gctcaaaaga aggcttgaag gatgatgaac agcttactga agcaaacttt 300

aataagccgg agaccagaac taattgcaaa gcgatgggtcc gttttagggt tgattctgaa 360

ggtcaatggc gagttattca aataattcct gaacacaatc atgagctagt tcgaccggaa 420

aaaatacact t 431

<210> 10433

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-B8

<400> 10433

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tgcagtcatt ggtacaaacc atcagggcac aacagctgca gcaactcgtg ctacctctga 120  
tcaaccaagt agctctggca aacctttctc cctactctca gcaacaacaa tttcttccat 180  
tcaaccaact gtctacactg aaccttgctg cttatttgca gcaacaacta ttaccattta 240  
gccagctagc tactgcctac tctcagcaac aacaacttct tccatttaac caattggccg 300  
cactgaaccc cgctgcttat ttgcagcagc aaatactact accatttagc cagctagctg 360  
cagcataccg tgcttacttc ttgacacagc aacagttgct gcctttctac cagcag 416

<210> 10434

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-C1

<400> 10434

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tgtagtgga attggtgctc tctaccctca gaaatcaatt ttctccgatt gtccatggct 180  
ttttgggtct agaattgtag atagagagga gattttcttc ttgatagggt tgctgcttac 240  
agtggctgaa tgtatctcac cggcgattta ctgatttgct catgaacatt tgtaatcgcc 300  
agaaccttcc tggcgaccaa agtatgctgt caatatattg gacacctgaa gaactgcttg 360  
gagtctacac aggacctgat ctttaaatat ttggccaccg aatttttcta aaaccggatt 420  
acataa 426

<210> 10435

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-C10

<400> 10435

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acattgtcca aggagacaa actaacttct cagcctcaaa cagctccatc ttccaagcca 120  
actgccaatg taaaggacac agctactgag tttgctacac tgtctttatc aaagaaggat 180



tctgttggtt caaatggtgc tgtgcttagc attggatgtc tcacatccgg tgagaaagca 240  
atgaacttat cagaatctgt ggatcaagct aatgaaatca caaaagcact tcctacgagt 300  
cagaacaata ctgcaccagt aattgctcaa gcagattgtg gagtagagat cagctctggt 360  
gtcatcatgc acgttgctgt gtctgcttca tgcaatggaa ctacagagaa a 411

<210> 10436

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-C11

<400> 10436

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tctgctgatg aatctgaact aactgaaaac attaaccgag tttgtcatag tcttgaattt 120  
cattgctggt gtccttggtg tagtaagctt ttaattctcg acaggctgag gatgatgatg 180  
accttgatct ttttggtgat gaaactgagg aggacaagaa ggcagctgat gagcgtgctg 240  
ccgctgccaa ggcctcttct aaaaagaaag aaagtggtaa atcctccgtc cttatggatg 300  
taaaaccatg ggacgatgag actgatatga agaagctgga ggaggctgtc cgcagtgtcc 360  
agatggaggg tctgacttgg ggagcatcaa agcttgtgcc tgttgatac ggcatacaaga 420  
agatgacta 429

<210> 10437

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-C12

<400> 10437

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gcatttggtc aggtgaagct ggtagccgtg caacttggag taccaggacg agttgggtgt 120  
gtggacggag agcggcgacg tgggcaaggg cttcagatgc atgcgcatgg tgaacaacat 180  
acgactgaac ttcgacgcct tatacggcta caagggccac agcgggttgc tcgacggcac 240  
cacctgggtg ctgtgggagt gtgcaaagg cgacaaccag agctggaaga tcctggcatg 300

gggcgacgag gacta

315

<210> 10438

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-C3

<400> 10438

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ttcgtcgggt cagcaccatg aggccaccgg ctagaggagg acgtggtggg aggggtggcag 120

gttcgatggc ggcgggccgtg ggggcggcgg ccggcgccgt gggtttggcg gtggttagagg 180

cgggagaggg gacaggggag ggagaggtgg caggaccccc agaggcggcc gtggcggcgg 240

tggcaggggt ggccgcggcg gtggcatgaa gggcgggagc aaggccgtcg tgggtggcgca 300

caagcacgcc ggtgtcttca tctccaagtc caaggaggat gcgctctgca ccaagaacat 360

gggtcccggga ggtccgtgt acggagagaa acgtggctcc gttcagaatg aggatggaac 420

<210> 10439

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-C4

<400> 10439

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cgtgagtctg ttgttaactt tttcaaggag gctggctgac aggaagaaat tgagaaagct 120

tttgaagaaa aacctatgcc aacacctcag tctagaacag agtatcagcc taggactgag 180

tatcactctc gcaatgcaga cggctactgt caaataaaac aacctggctt tagctctgct 240

ccagcgggtg gacctgaatt tcttactct cagccacaac aatccacact tagtaacact 300

ccaaatcagc agcctgagtt tggctcatct cgatcatgga attcaggttt cgggtgctcct 360

caagcgcaat ctggatatgg tgcaccttaa cctgtacaga caccacagcc acag 414

<210> 10440

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-C6

<400> 10440

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cagctcgcta caaattgcgc taacaatcgt gctgatcatc tcattgattg tcacctagaa 120

tgcaccctat gtgacaccaa accagataact aaatgagact attgctgtaa atatgatcat 180

tcaagcgatc atgtcatcca cataatgatt caaatgaagc atgactcgga caatgacttc 240

gagatggagg acatcattga tgatatccat gatcacactt atgtactcac taatgcaagg 300

aatggatcac tgattgagcg gccgcatgag cgtgctcata tggttgctat tagt 354

<210> 10441

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-C7

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catgctatgg agcttaaadc cgtttgcctc aaatttgctg ccgaaaacct gtcagctgtg 180

atccggactg agggtttcga ctatctcaaa gacaactgcc catctctgca gtcagagata 240

ctgcggacag ttgccgggtg tgaggagcca tgtagcagcg gcttgaaaag ccagagcgtg 300

tgggcgcagc tctctgacgg cgcgacacc agcgggcgca gggtgaggcc aagggtctga 360

gacgcaaacc ccggaagcac tgacctttgt aatcaaaagc tgttgtggtg taaatgggac 420

ggcttttct 429

<210> 10442

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-B12

<400> 10442

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 cagatgcagc agccttgcaa tgagtgaag gggactggag agagcatcaa tgagaaggac 180  
 cgctgtccag ggtgcaaggg tgagaaggtc attcaagaga agaaggttct cgaggttcat 240  
 gttgagaagg ggatgcaaca caaccagaag atcaccttcc ctggtgaagc tgatgaagcg 300  
 cctgatactg tctactggaga cattgtattc gtcctccagc agaaggatca ctccaaattc 360  
 aaaagaaagg gtgaagatct cttctatgag cacaccttgt ctctgaccga agcactatgg 420  
 gggttcca 428

<210> 10443  
 <211> 372  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-005-Q1-K1-H8  
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 tccaagttta ctcagcagga gctttcagct tgcaagccga ttcttactcc aaaatgggtt 360  
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 <211> 325  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-006-Q1-K1-A1  
 <400> 10444

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gtgcgctcat cgcgcgctcc gcgtcctcgc tccgcccgcg gttccgtctt gccgctggtc 180  
ccaagggcca tttttgtact tttccttatg gagcatctag caatcacagc cggctatgtg 240  
ttgaacatca aaggtgttct tcgaactcca cccagaacta tgctctttct aagaaggatt 300  
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<210> 10445  
<211> 428  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-006-Q1-K1-A10  
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gccttacgcc gaccaggggc ttcctctaata cgatctgggtg tctgttctgt ggtcttttgg 180  
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caacgcgggtt cgatttgaag gagcgtgatg gccaaagacga gtcggttcaa gctggagcac 300  
cccctcgaga agaggcaatc tgaggctaac cgtatcagag agaagtaccc tgacagaatt 360  
ccagtgattg ttgagaaggc tgagaggagt gatattcctg acatcgacaa gaaaaagtac 420  
ctcgctct 428

<210> 10446  
<211> 413  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-006-Q1-K1-A12  
<400> 10446

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ttgtgtccta caaatgacga tagaaatgta cgtgctttgt ttgagagggc actgagctta 180  
cttgctcgca aggaatccac agacgtatgg agacgatttg cacaatttga acagaactat 240  
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tctgaagatg ccttatctgc atcggaaaac acactttatg acataacttc tcgatacagc 360  
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<210> 10447  
 <211> 565  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 10447

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 gtatgatnnc tacacanntt ttatcaaggg gcaccagggn nagtattcnn tgttgnngaa 180  
 aatcntnct cgtcggaaga gggataatnn actcgagcct tcgcannnac ttctctttan 240  
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<210> 10448  
 <211> 320  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-006-Q1-K1-A5  
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 gtctgggaaa aaaaaccata ttattatgta actgtattaa ccttggttgt ctcttctcgc 180  
 cttctgagat acaagtgtct cttggtcaaa gagtgggtgg cccgtttcta tgcctatgca 240  
 gctatgctcc agtattgtcg catttgccca ggtaaaataa ctaattacat ggcacgcgaa 300

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320

<210> 10449

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-A6

<400> 10449

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gctgatccgt ttgctgatgc ttacctgat atgcatgaca atgtattcat catgattcac 180

ctacttgagt tctcatatc tgattacatg caagtttggc tatgctgaga acatattacc 240

acaatacatt cttagaatg ctaccatata tattatcaat gcacgcactg atttgctaata 300

tctgaacaac a 311

<210> 10450

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-A7

<400> 10450

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gacaacgcgg tgctgcgcgc ccgccacgcc gagctggccg gccgcctgca gtcgctgggc 180

ggcgctctcg aggggctcca aatggccggc gccgcgctcg acatcccga gatggtcacc 240

gacgacccca tgctccgcc ctggcagccg gccttcccc cgatgcagcc catcggggtc 300

tgagaatctg agccttagcc ggcgggagag agccaatttc tgttcgcgtg cccgtggcta 360

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-A8

<400> 10451

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cgattgggggt cgcgtgtgcg ataggaagta ttgtgttggt tttgcaacgt gatagcttgt 180  
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acatggacaa gccaaagtaa aggaatatgc caagagctct ttgttgctct atggaaacta 300  
caatacagac aagatcaatg gttcaaacc tgatgactat gagaaatttg agaaagggat 360  
aatgcactat ggggtgtccac attatagaag gagatgccgc ataagagctc cttgctgcaa 420  
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<210> 10452

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-B10

<400> 10452

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ggcctcgcct gggccacgga cgaccactcc ctccacaacg cttcagcac ctacggcgag 180  
gtcctcgagt ccaagatcat cctcgatcgg gagacgcaca ggtcccgtg cttcggcttc 240  
gtcaccttct acacggagga ggcgatgcgg aacgccatcg agggcatgaa cggcaaggag 300  
ctggacggac gcaacatcac cgtcaacgag gccagtcgc gcggcagccg tggaggcggc 360  
ggcgggtgggt actgcggtgg ccgtggaggc ggcggtacg gcggtggc 408

<210> 10453

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-B11

<400> 10453



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ggtcagcaca tgtcaggtgg tggctctggc ggctcgcagt cgggatctgg acctcaggg 180  
ggcggtgacc aggcgccgga ggcagagtat gaagaggtta aaaagtgagg ctgcgggaag 240  
ttcaagcgaa attgtagtga cctgtttaga agtagctact cttttttggg aacacagata 300  
gtcagatgag atgtaaaacc tgtgttgtaa taatcgttgg atttgcccc acttagtttc 360  
cttctgcggc gatggaggta acacgacatt tcattgcttt tggtgcatat gatgccttga 420  
tctggcatgg at 432

<210> 10454

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-H7

<400> 10454

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gccaagacc gcggaagaact tccgcgcgct gtgcacgggc gagaagggcg tgggcaagtc 180  
cggaagccg ctccactaca agggctccac ctccaccgc gtcaccccc agttcatgtg 240  
ccagggcggc gacttcaccc gcggcaacgg caccggcggc gagtccatct acggcgagaa 300  
gttccccgac gagaagttcg tgcgcaagca caccgcccc ggtgtgctct ccatggccaa 360  
cgccggggccc aacaccaacg gctcccagtt cttcatctgc accgtcgcga ccccttggt 420  
cgacggcaag cacgtcgtct tcggc 445

<210> 10455

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-G4

<400> 10455

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aacgtcttat ggtactactc tcacatcaag gctgaatgga agctatggat accgttttgc 120  
cttcagtgtg ctccaagaag caactaaciaa ttctgaccag aactgggtca ttggaagtgg 180  
aggcttttga aaggtctaca aggggggtgat g 211

<210> 10456  
<211> 443  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-005-Q1-K1-G5  
<400> 10456

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acgccgccgc cgcccaaaga aagacgtcaa ctccaggaga caagatagtg agaactgaag 120  
agaaggatgg gcttcgagaa gcagatcctg agatccggca ccggcccaa gccgataaag 180  
ggccagaagg tcaccgttca ctgcaccggc tacgggaagg atcgtgatct gtccaagaaa 240  
ttttggagca ccaaggaccc tgtgcagcag ccattcagtt tcagcattgg tcagggttca 300  
gtgatcaaag gatgggacga gggagttatg accatgcaag tgggtgaagt tgctcgtatc 360  
cagtgcacgc ctgattatgc ttatggagcc ggcgggttcc cagcctgggg aattcaacca 420  
aactcagtgc ttgtgttcga gat 443

<210> 10457  
<211> 421  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-005-Q1-K1-G9  
<400> 10457

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gagaatgtgg aggctcagcc tgttgcccga gcacctgctg ctggccaaca aacaaatcag 120  
caggccgcat caccgctca gccagcagtt gcattgccag tgcagccatc acctgcctct 180  
gcagggccta atgcaaatcc tttgaacctt tttcctcagg gtgttccaag tggtaggtcc 240  
aaccaggtg ttgttccagg tgcaggatct ggtgctcttg atgccttgcg acagcttcca 300  
cagtttcaag cactccttca gttagtccag gctaatcctc aaatcttgca gccaatgctt 360

caagagctag gtaaacaaaa cccacaaatt ctgcggttga ttcaagaaaa tcaagctgag 420  
t 421

<210> 10458  
<211> 407  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-005-Q1-K1-H10  
  
<400> 10458

atggaagctg cgggaagaag gaaggctctt ggaaattggt gatccagaac tggaaaagta 60  
cccagaggag caaatgcttc gtttcattaa agtggcactg ctgtgtacgc aagccacgtc 120  
ccagcagagg ccttccatga agcaggctgt taatatgcta tctaaccaaa cagaaattga 180  
tctgcaaaat gtagctccac caggtgtgct gaaagaacct cggcagcgta ccggtggctt 240  
tggggggttg atagcagaca cgtcctcaag ccaaagcact aaaggcaacc cagctgaatc 300  
atacagcaca cagaccaaca tgaacagctc tcagtttagc acaactgatg tatcaccacg 360  
gtgacgttgt cgactattgt ttgacgtctt cagaggtgtc tcgcgcc 407

<210> 10459  
<211> 418  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-005-Q1-K1-H11  
  
<400> 10459

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gtcgatggag ttctggggtc tcgaggtcaa acctggatcc actgtcaagt gtgagcctgg 120  
acatggcttt atcctgcacg tttcccaggc tgcccttggg gaatcaaaga aaagtgcacg 180  
tgccttaatg tatgtcaaag ttgatgacaa gaagcttgcc attggaacgc tctctatcga 240  
caaataccca cagatacaat tcgatttggg tttcaataaa gagtttgagc tgtcacacac 300  
atcgaaaact accagtgtat ttttctctgg ttacaagggt gagcagccaa ttgagggaga 360  
tgaaatggat cttgattctg aggatgaaga ggaggagcta aacattccag taatcaag 418

<210> 10460  
 <211> 425  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-005-Q1-K1-H12  
  
 <400> 10460  
  
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 ttttgctccc ttatgctcct tggatattct gcaagtgtg ctacggcgac cattttcccg 120  
 caatgctcac aagctcctat agcttccctt cttccccctg acctctcacc agcgggtgtct 180  
 tcggtatgtg aaaacccaat tcttcaaccc tacaggatcc aacaggcaat cgcagctggc 240  
 atcttacctt tatcaccctt gttcctccaa caatcatcag ccctattaca gcagttacct 300  
 ttggtgcatt tattggcaca aaacatcagg gcacaacaac tacaacaact tgtgctagca 360  
 aaccttgctg cctactctca gcaacagcag tttcttccat tcaaccaact agctgcattg 420  
 aactc 425

<210> 10461  
 <211> 446  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-005-Q1-K1-H2  
  
 <400> 10461  
  
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 cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata 180  
 gcttcagtat gtgaaaaccc agctcttcag ccctataggc tccaacaagc aatcgagca 240  
 agcaacatac ctttatcacc cttgttggtt caacaatcgc cagccctatc tttggtgcag 300  
 tcattggtac aaaccatcaa ggcacagcag ctgcagcaac tcgtgctacc tgtgatcaac 360  
 caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac 420  
 caactgtcta cactgaaccc tgctgc 446

<210> 10462  
 <211> 408

<212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-005-Q1-K1-H4  
 <400> 10462

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 cccagcttgc caatgcaaga gatggcacga tgaatggtaa agccaaggaa gaagataatg 120  
 agaagggcga caccgaaaag gatgacgaac ctgttggtgt agttgccaaa gtatggggaga 180  
 acagcaactt tgctgactac gattcatcta aggttaaaga gaacgatggc gactcgcaag 240  
 ttgatttgga atcaaacaag ggcgacgcaa gtgttgacag caacggcctt gctccaacta 300  
 agcagagcaa tggcaggaca tcaccaacta aacagcacca gcagcataag aagaagcttt 360  
 ctctgaagaa attcgggtgt ctgctgaaga gaanagcgaa attagcat 408

<210> 10463  
 <211> 406  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-005-Q1-K1-H5  
 <400> 10463

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 ctgtgtctat tatggctata attgcaaata ggtatcaacg gaggagacct agacacatca 120  
 tagatgctaa cgaagttcaa gagagaaatg tgcagtgcag aaaacaaatg ctatgtaata 180  
 tgtaccaggg ttcaaagtgc tattgctatg acagtttgcg cctaactaag agatctttta 240  
 gtgaacttgag tgccatctta cgggaaaaga gtggcctaca ggatacccta aatgtgtcgg 300  
 tagaagaaaa gcttacaatt tttctgctta tagtaggtca taacaccaaa aatgaggttg 360  
 atccgtagca cttaatgggt ggtcccttga accaatcagt cgacac 406

<210> 10464  
 <211> 447  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-005-Q1-K1-G2

<400> 10464

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atcgtcgact tcatcaagaa gagcaaggag accgcaggcg ccgccaccac caccaccacc 180  
caggcgccac cggcatccga gaaggcagcc gccgccgagc cgtcaagga cgagctgtga 240  
gcatccaagg tgtggacggc tgtggctgcg taagcatggg aggaaaacct ggcgctaacg 300  
tgctacaac gcctagtttt tgcgggacca tgaggagaga gagagagga cggagttaga 360  
gagagagggg atctgcgacg tgttttgctc tgcggcggca tgtctgtgta tccattgag 420  
gttatgtaca caattacacc gcggtcg 447

<210> 10465

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-E9

<400> 10465

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actctgcaca ttttaagaac catgtttacc atggctgaaa aggggtgatc tctcagtact 120  
gaatttgctt ctgtaagtgg tttctgatag cgtgctagct gttactgcgc ctatgggttg 180  
ttcgtatggt ggcccttcgt gccagaggcg cattgaaatg cgtcacactt tgtcattact 240  
ctggaccta accaggaag tcttgattgc 270

<210> 10466

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-005-Q1-K1-F1

<400> 10466

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caatacaacc tcaaattaac ttgcctattc atcgattatg ttcaggaaat aatgtatcaa 120  
ttaattgaag gaagtaatag tagtggtcca tctagaactc attcgattcc tagttctaac 180

tatgaccact aacttttgcc ttgctagctg gctatgtaca agcctgcaac acattcttat 240  
gataccatca tgtcattaaa tgtcaagggc tgagtatccc cggacagcag ggcctcgact 300  
acgcagttcg taatcgtgac ccatcttctn ncgcgagatt atgcccctca ancacaagtt 360  
ttgttggtga agtgagagga gagattagag agaataaact ttgctta 407

<210> 10467

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-F10

<400> 10467

ggaggatgcg tgtgctgagg cgccttctcc gcaagtatcg tgaggccaag aagattgaca 60  
agcacatgta tcatgacatg tacatgaagg tcaaaggtaa cgccttcaag aacaagaggg 120  
tgcttatgga gagtatccac aagtccaagg ctgagaaggc cagagagaag acactttctg 180  
accagtttga ggccaagcgc gcccaagagca aggcgagccg tgagaggaag atcgctagga 240  
gggaggagag gttggccag ggtccacgag aaataacacc acctgtctca tccacagctc 300  
cagctactgg ggcaccgaag aaagcaaaga agtgaagtat tgaaataaag ctgtagcttt 360  
ctagtccagt actgcacttt cttttataag ctctagtcaa attttgagc gcctgaactg 420  
tttt 424

<210> 10468

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-F11

<400> 10468

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ggtcgcgtgg cccttcagcc acccaaattg gaaagcccgc tgttcacatg gctagcgttg 120  
acttgaaagg aaaagcatac gatgtgttga gacagaattc ttccagcttt ttgttggaag 180  
atgtctacag aaaccaggc ccgctccagt ttgaaggacc aggtgccgat tcaaagccta 240  
tttcattgtg cgttgaggat caagactata tgggcagaat aaaaaagttg caggaatact 300

tggagaaggt gaagaggatt gtgaagcctg ggtgctcgca ggatgttctt aaagcggcgc 360  
 tgagtgccat gtcttctgtg ccggaacac tgaacatcat gac 403

<210> 10469  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-005-Q1-K1-F12  
 <400> 10469

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 cctaaaaacc ctagcccccg aatcagatcc caccgcccgc cggaacgcgg aaccctgccc 120  
 acggccgcca tggagatgag cgatgcggag cggatgatct tcttcgagat ggcttgcaac 180  
 aactccgagg tcgcgtacga gcagaacccc aacgacgccg acaacttgac gcgatggggc 240  
 ggagcgctgc tggagctatc acagatgcgt aacggccccg acagcctcaa gtcctccaa 300  
 gatgcggaag ccaagctgga ggaggcactg caaattgatc ccaacaagtc tgatgcactc 360  
 tgggtgctcg gaaatgctca gacttctcat ggattcttca ctccagacac tgcaatggca 420  
 aatg 424

<210> 10470  
 <211> 447  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-005-Q1-K1-F2  
 <400> 10470

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 tcggcgccct cgcttgggac acggtcgacc actcccttca caacgccttc agcacctacg 180  
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 aggagctgga cggccgcaac atcacctgca acgaggccca gtcccgcggc ggccgtggag 360  
 gggcgggcgg tgggtacagt ggtggccgtg gaggcggcgg ctacagcggg ggcggggccc 420



gtgatggcgg tggcggctac ggcggtg 447

<210> 10471  
<211> 303  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-005-Q1-K1-F4  
  
<400> 10471

gcgtctttac aacaaccaat ttcccagttg caacaacaat ccttggcaca tctaacaata 60  
caaaccatcg caacgcatca gcaacaacaa ttgctacca cactggggcca cctagccatg 120  
gtgaaccctt gcgactactt gcaacagcag ttgcttgcac cataccact tgctctggca 180  
tacgtaattg caaaccatcc acacaaacag ctgcaacagt ttctggcagc gctcagtcaa 240  
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ctc 303

<210> 10472  
<211> 436  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-005-Q1-K1-F5  
  
<400> 10472

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aaaaccctag cgagtcgca tccatcatgg cgatgtccat ctctgctggc ggcgactccg 120  
gtgcgctcat cgcgccgtcc gcgtcctcgc tccgcccgcc gttccgtctt gccgctggtc 180  
ccaagggcca tttttgtact tttcctcatg gagcatctag caatcacagc cggctatgtg 240  
ttgaacatca aaggtgttct cgcagctcca ccagaacta tgctctttct aggaaggatt 300  
tttctcctat aactcaagat gtggaaggct tccttcacaa tgttggttaac atgggttttc 360  
ttgaccgtct gaaattagcg tggaagataa tgttttctgc accaaccaca aaggatacct 420  
ccaatgcaaa catcgc 436

<210> 10473  
<211> 411

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-005-Q1-K1-F6  
  
 <400> 10473  
  
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 tcctcttgca ttgcgtgtgc gtactctgct ccaatcatcc ccgcccgtg ttgtcaagca 240  
 atttctggtc ctcttgcttg ctttctctag gagatgctgt tcatttcgat ctcttggcgc 300  
 aatttgatct ttcgcttggt gtaattaggt cattagttaa atcataagag actcgtgttc 360  
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<210> 10474  
 <211> 351  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-005-Q1-K1-F7  
  
 <400> 10474  
  
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 tccccgatga gaaaaccgct gctgtgaaca aagccatcag gatcatcgag gaaggcaagt 180  
 gaagtgatgc accaccacct tgttactggc aggattgaat cctgatgaaa gctccatata 240  
 tatccgtgta tcgtctagga gaagtttata tccgtgtgct ttgctgacac tcgagggagg 300  
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<210> 10475  
 <211> 374  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-005-Q1-K1-F8  
  
 <400> 10475

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gcgaagtgat gcaccgatac cgttttactg gcatgatcga atgctggcaa tgctgcatat 240  
ctatccgtgt atcaactggg aggaactgat ctgccggtgc ttgcccgaca cctcggggcca 300  
gaaaagctgt agtcgcacat tattctgccc taaatgctgt ccatggcggtt attgacgtgg 360  
gtacagtagg gctg 374

<210> 10476

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-F9

<400> 10476

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ggccaaaact cccagggccg cgtcgtcacc gccggctaag atgacgccct cgggagctga 120  
tcaccaccag catgccgcta acgcctccgc cttcagggt gctcagctct cttctgttgc 180  
tgctgcgcac cacggttctt cctctacagg gaagaatcct gtggaaagtg tctcagttga 240  
gtttgaggcc aagtcagctc gtgatgggtgc atggaggtgc gggttcgttt ttctggattt 300  
ggggcagagg aggatgaatg gatcaat 327

<210> 10477

<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-005-Q1-K1-G1

<400> 10477

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ccctcttctt catcccgctc ctagcagccg atcccaactc ccgatcttcg tttcctttga 180  
ggtatgactc tgtttttagcc tgttggggta tataatcaat ttgggtgctg gtcctttttt 240

ttaagcggtt ctgatagaga tgacggaggt gaaaaaatac tccagcataa ttgggttcctt 300  
gcttatggag tatttggtta ttttgtacta tctaagcatc gaattccagg ctgtaacttt 360  
tgctgcatcg ggcaaagtgt tttgatttgc tcgatagaac tgtcagttta ggaaccacta 420  
ngcgtcgtta catactgtac gctcg 445

<210> 10478

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-D2

<400> 10478

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cctccgttct atatgccgcc tccgttctat ctgccgccgc agcagcagcc gcagccatgg 180  
caatacccca ctcaaccacc gcagctaagc ccgtgccagc agttcggatc ctgcggcgctc 240  
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ccggcgggca cgccctacgg ctgccacag tgccaggcgc tgcagcagca gtgctgccac 360  
cagatcaggc aggtggagcc gctgcaccgg taccaggcga catacggtgt ggtcctgcag 420  
tcctttctgc agcagcag 438

<210> 10479

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-D5

<400> 10479

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gctgcgtgag gcgtacaaga agaagaagct gctcccgtc gacctccgcc ccaagaagac 180  
ccgcgccatc cgcaggcgcc tcaccaagca ccagctctcc ttgaagaccg agagggaaaa 240  
gaagcgtgag aagtatttcc ccatgaggaa gtacgtatc aaggcctaga tcagtgaaag 300

aacatttatc ctgtcaagtt ttgctcagaa gttacttgaa tttgagacaa atctatctcc 360  
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<210> 10480  
<211> 440  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
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<400> 10480

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ttcagatttg gtagtgcctt tccggccatc ctctgttccc acaattaatg cagggtgctga 180  
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acctgaaact taccagatga ttcaggatga aatggtcagt gccatgcgtg atgataggag 300  
cttgggttgt tctgaactta gcagatggct aacaatggca canataatgg cctncagctn 360  
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aaagcagagg atgcaatgag 440

<210> 10481  
<211> 415  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-005-Q1-K1-D7  
  
<400> 10481

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gcggtggcgc agaacgagtg caacaacggc tgcgcggcgc ggctgatgac gaacgcgtac 120  
tcgtacctga tggagtccgg cggcctgatg gagcagagcg cgtacccgta cacggggcgcg 180  
gcggggccct gccgcttcga cccgacccag gtcgcgcgtc gcgtggccaa cttcaccgcc 240  
gtgccggcgc gcgacgaggc ccagatccgc gggcgctcg tccgccgcgg gccctcgcg 300  
gtggggctca acgcggcggt catgcagacg tacgtgggcg gngtgcgtg cctctcacc 360

tgccccgcgcg catgggtcaa ccacggcgtg ctccctcgtcg gctacggcgc gcgcg 415

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<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-D8

<400> 10482

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atgccagtgc tcagacaact agccatgggtg aaccctgacg tctacctaca actactttca 180  
tctagccgcg tcgcggtggg caatgcacct acgtacctac aacaacagct gctgcaacaa 240  
attgtaccag ctctgactca gctagctgcg gcaaaccctg ctgcctactt acaacagttg 300  
cttgcatcca accaactggc tgagtcaaac tctgctgctg acctacaaca gcgacaacag 360  
ttacttaatc cattggcagt ggctaaccga ttggtcgcta ccttcctgca gcagcaacaa 420  
caattgctgc catacaacc 439

<210> 10483

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-D9

<400> 10483

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ttggatgggc ttccaggctg gcaaggcccg cagaaactac aagggtgttct accccaccat 180  
gtacgccatc gactcggaga acaaggacgc caagctcttc aactgcgtgc agagggggca 240  
ccagaactct ctagagtgga tgcccgtttt cttcgtcata ctgctgctgg gcggtctgca 300  
gcacccgacc atcgccgccg gtctggggcg catctacatc gtcgcgaggt tcttctactt 360  
caaggggatac gccaccggcg ttccggacaa ccgtctcaag attggggggc t 411

<210> 10484  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-005-Q1-K1-E10  
  
 <400> 10484  
  
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 tccaagcctg aagacctcca agaaactgga tgtctccgcc atggctgtat acaaggtgaa 180  
 gcttgctggg cctgaagggtg aagagcacga gtttgatgct ccagacgacg cctacatcct 240  
 tgacgcagcc gagactgccg gtgtggagtt gccatactcg tgccgtgctg gggcttgctc 300  
 cacctgtgcc ggcaaaatcg agtctgggtc ggttgaccag tcggatgggt ccttccttga 360  
 tgacgggcag caggaggaag gttatgtgct gacatgcgtc tcctacccaa agtccgac 418

<210> 10485  
 <211> 297  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-005-Q1-K1-E11  
  
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 cttgacacaa ccacagttgt tgccgttcta ccagcacgct gcgcctaacg ctggcaccct 120  
 cttacaactg caacaattgc tgccattcaa ccaacttgct ttgacaaacc cagcagcatt 180  
 ctaccaacaa cccatcattg gtgggtgccct ctttttagatt tcttatgagt tatagttcaa 240  
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<210> 10486  
 <211> 375  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-005-Q1-K1-E12  
  
 <400> 10486  
  
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aatggcgctcg tcgctctagca gcagccaccg ccgctctcatc ctgcgcagccg ccgtcctgct 120  
ctccgtgctc gcggctgccca gcgccagcgc cgggacctcc tgcgtgccgg ggtgggccat 180  
cccgcacaaac ccgtccccga gctgccgctg gtacgtgacc agccggacct gcggcatcgg 240  
gccgcgcctc ccgtggccgg agctgaagag gagatgctgc cgggagctgg cggacatccc 300  
ggcgtactgc cgggtgcacgg cgctgagcat cctcatggac ggcgcgatcc cggcggggccc 360  
ggacgcgcag ctgga 375

<210> 10487

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-E2

<400> 10487

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tgccccctgcg cggggctgca gggcttgtac ggcgctggcg ccggcctgac gacgatgatg 120  
ggcgccggcg ggctgtaccc ctacgcggag tacctgaggc agccgcagtg cagcccgtg 180  
gcgggcggcgc cctactacgc cgggtgtggg cagccgagcg ccatgttcca gccgctccgg 240  
caacagtgtc gccagcagca gatgaggatg atggacgtgc agtccgtcgc gcagcagctg 300  
cagatgatga tgcagcttga gcgtgccgct gccgccagca gcagcctgta cgagccagct 360  
ctgatgcagc agcagcagca gctgctggca gcccaaggtc tcaaccccat ggccatgatg 420  
atggcgcgaga acatgccggc catgggt 447

<210> 10488

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-005-Q1-K1-E5

<400> 10488

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caatttcttc cattcaacca actgtctaca ctgaaccctg ctgcttattt gcagcaacaa 120



ctattaccat ttagccagct agctactgcc tactctcagc aacaacaact tcttccattt 180  
aaccaattgg ccgcactgaa ccccgctgct tatttgcagc agcaaatact actaccattt 240  
agccagctag ctgcagcaaa ccgtgcttcc ttcttgacac agcaacagtt gctgcctttc 300  
taccagcagt ttgcggtctaa ccccgcaacc ctcttacaac tacaacaatt gttgcccttt 360  
gtccaacttg ctttgacaga cccagcggcc tntaccaac aacacatcat tgggtggtgcc 420  
ctcttttaga ttgcttatta gtt 443

<210> 10489

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-E6

<400> 10489

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ttcatcacat tgttgactgc ataacgaaac acatcgtcgt cggatcggag atgatgagtt 120  
ccgtcgtcgt ggatgctgct gctaccagca gcagcgagaa gaagacgtcg tggccggagg 180  
tgggtgggcat gtccatcaag gaggcgacgg agactattct caaggacatg cccaacgcgt 240  
acatccagggt gctgcctgtt gggtcgcccg tgacgctgga ccttcgcccc gaccgcgtcc 300  
gtatcttctg tgacaccgtc gccatgactc cgacagttgg gtgatacata ccaaatgcaa 360  
taaacaaacc ctactttata ttttatgttt ccagtttaata ataaaccagg ccttagcttc 420  
ttggttggtcc ttgcttggtt ggtg 444

<210> 10490

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-E7

<400> 10490

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tccttatgct ccttgctctt tcttcatgtg ttcctaacgc gaccattttt cctccatact 120  
cacaagctcc tatagctgcc cttcttcttc cataccttcc ataactgacc gcttcagtat 180

gtgaaaaccc agcccttcaa ccctataggg tccaacaagc aatcgcaaca aacaacttac 240  
ctttatcaca cctgttcttt caacaatcgc cagccctatc tttggtgcag tcattggtac 300  
aaaccatcag ggcacaacag ctgcaacaac tcgtgctacc agtgatcagc taagtagctc 360  
tagcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac caactgtcta 420  
cactg 425

<210> 10491

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-D12

<400> 10491

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cttccccgga gagcgatggc gacggatctg acggctgctc atctgcgcgc gtacgacggt 120  
accgaccctt tcaagcgcac ctacgtcttc gtccggcgca tgggtctacga cgtcacctac 180  
ggccgcggct tctacggccc cggcgggcgc tacgccgtct tcgcggacct ggaggccagc 240  
cgcgccctcg gcaagatgtc caatgacgaa gccgacgtct ccggggacct ctgcgggctc 300  
accgtcaatg agctcggcgt gctcgtcgac tgggagatca agttccaggc caagtacccc 360  
gtatgtttcc gactctccgt cgactcctga actcgtcggg ctagggctaa at 412

<210> 10492

<211> 353

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-005-Q1-K1-B8

<400> 10492

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aagattcagc ggttccttag ccagcctttc catgttgctg aagttttcac gggatgcacct 120  
ggaaagtacg ttgagctgaa ggagagtgtt aaaagtttcc agggcgtttt ggatggcaag 180  
tatgatgacc ttccagaaca gtcattctac atggttggag gaatagagga ggtcatcgcc 240  
aaggcagaga agattgccaa ggaatctgca tcataagggg tctacaggca acgcanaatt 300

aactttttgga ggtcaacgtg atgtgctttt tctcctgtgt tatcaagaac tta 353

<210> 10493  
<211> 356  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-B9

<400> 10493

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caccctcgcc aggcagcagc tcgggtacaa gccaccacc aacctcgatg tcggcctcaa 120  
gaagtctgct aagtgggtacc agtcctacta cggctacacc aggggatcca agaactcgcg 180  
acaatgatcc atgctaattc ttccttcttc ctttctcgct ttggcccggc cgcggccacc 240  
cactctcgga tcaaacattg acattcttat caggattttt ttggtggaaa tatgttatgt 300  
taagggtgtc ctttattaag tagagaaata ccggggacaa attctttgct tgggga 356

<210> 10494  
<211> 391  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-005-Q1-K1-C1

<400> 10494

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tgcaacaaga attggtgcaa cagattgtac cagctctaaa ctaactagct gtggcaaacc 120  
ctggttgcta cttgcaacaa ctggtttcat ttaaccaact aactatgtga aacttggtgg 180  
tcctacacaa ggccacagta ctaaactatg gcagtggcta acccattggt cgctgccttn 240  
ctacagcagc aacaattgct gccatacaac cggttctctt tgatgaatcc tgtcttgctg 300  
aggcagcaac ccatcgttgg aggtgccatc ttttagatta catatgagat gtactcgata 360  
atggtgccct cataccggca tgtgtttcct a 391

<210> 10495  
<211> 421  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-C10

<400> 10495

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tcagctatag atttgacaga gcaaacagaa aggggtgtctt gagtggatat tgtctctggc 240

taattgtggg atatgcagtt ggccttttca ttacgtatct tgcgctgttc ttgatggacg 300

ggcatgggtca acctgcgttg ttgtaccttg tgccatgtac attggggggtt attggtattc 360

ttggttgggtt aagaggtgag ctttatgaat tatggaactt cggaaaaagt ccaggagaaa 420

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<210> 10496

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-C2

<400> 10496

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tggctaacat cctttattca tatcgtggga tgggactgtc gattggtaca atgatcgctg 120

gatgggatga gaagggctct ggcttggtact atgttgacag tgaggggtgcg cggctcgtgg 180

ggaacagggtt ctctgttggc tctgggtcac tgtatgctta tggatatctg gatgatgggtt 240

accgcttcag catgtcagtt gaggaagcag ccgaattagc gcgacgggct atttatgggg 300

caacattccg tgatgcagca agtgggtgggt gtgttagtgt ttaccacggt ggccctgatg 360

gttggacgaa gctttctggg gatgatgtcg gagagctgca ctaccactac taccgggttc 420

agaaaactcc ggttgaacag g 441

<210> 10497

<211> 442

<212> DNA

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<223> Clone ID: LIB3059-005-Q1-K1-C5

<400> 10497

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atcgctgagc tatcactact ggagtacagt ctactctctt accctccatc actaatagct 180  
gcatcggtta ttttcttggc gagatttata ctacagccaa caaagtatcc ttggaattcc 240  
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catcgccctt gcagcgttgg ttctggtagc aaccttccag caatcagaga aaagtacagt 360  
caacataagt acaaatttgt tgcaaagaag cagtgtccac cgcagatccc tactgaattc 420  
tttcgggacg cgacatgcta ga 442

<210> 10498

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-C6

<400> 10498

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aagatcatcc tcgatcgga gacgcagagg tcccgcggct tcggcttcgt caccttctcc 180  
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aacatcaccg tcaacgaggc ccagtcccgc ggcgccgtg gaggcggcgg cggcggttac 300  
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tacggcggtg gcaaccgtgg cgg 443

<210> 10499

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-C7

<400> 10499

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gcgccatggc caggctggcg ctagecgtcc tctgctgct ggccgtggcg gcatccgcgt 180

gggccggcgc cggcgcgagc cacctcgatc tgggcctggg ctctctctcc tccggggacc 240

gccggcggga atgccgcggc acggtggccg agtgccctga cgaggaggag ggccctggacc 300

tgggggcggg gcccgcgctc gtggagtccc accgccgcgc gctctacggc ggccggcgcg 360

gcggcgggta catcagctac ggcgcgctgc ggcgggacaa cgtgccctgc taccgccgcg 420

gtgccagcta ctacaactgc c 441

<210> 10500

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-C9

<400> 10500

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aaacttggga ataaccaaga agccaatgcc agatttcagc ttctatgacc gttttgctcc 120

aatttataca caacctcgac acctgccacc ttcaaagggt cttgatgctg atgtgacaga 180

cagtgttatt ggtgaaggat gtgttattaa aaactgcaag ataaaccatt ctgtagttgg 240

actccgatct tgcatactg aagggtgctat catagaggac agtttactaa tgggtgcgga 300

ctactatgag acagaagctg ataaaaaact ccttgccgaa aaagggtggca ttcctattgg 360

tattgggaaa aattcatgca tcaggagagc aatcattgac aagaatgctc gaattgga 418

<210> 10501

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-D10

<400> 10501

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ctccgtgctc gcggctgcca gcgccagcgc cgggacctcc tgcgtgccgg ggtggggccat 180  
cccgcacaaac ccgtctccga gctgccgctg gtacgtgacc agccggacct gcggcatcgg 240  
gccgcgcctc ccgtggccgg agctgaagag gagatgctgc cgggagctgg cggacatccc 300  
ggcgtactgc cggtgacagg cgtgagcat cctcatggac ggcgcgatcc cggcggggccc 360  
ggacgcgcag ctggagggcc gtctagagga cctgccgggc tgcccgcggg aggtgcagag 420

<210> 10502

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-D11

<400> 10502

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accgaccctg tcaagcccat ctacgtctcc gtccggggca aggtctacga cgtcacctgc 180  
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cgcgccctcg gcaagatgtc caaggacgaa gccgacgtct ccggggacct gtccggggctc 300  
accgacaagg agctcggcgt tctcgccgac tgggagatca agttccaggc caagttcccc 360  
gtc 363

<210> 10503

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-B7

<400> 10503

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aacagcaggt gcttgcaccc aaccacttg ctctggcaaa cgtagctgca taccaacaac 180  
aacaacaatt gcaacagttt ctgccagcgc tcagtcaact agccatgggtg aaccctgccg 240

cctacctaca acagcaacaa ctgctttcat ctagccctct cgttgtgggt aatgcaccta 300  
 catacctgca acaacaattg ctgcaacaga ttgtaccagc tctgactcag ctagctgtgg 360  
 caaacctgc tgcctacttg caacagctgc ttccattcaa ccaactgact gtgtcgaact 420  
 ctgctgcgta cctacaacag c 441

<210> 10504  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-004-Q1-K1-H7  
 <400> 10504

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 gccctgcccc tgcgcggggc tgcagggctt gtacggcgct ggcgccggcc tgacgacgat 180  
 gatgggcgcc ggcgggctgt acccctacgc ggagtacctg aggcagccgc agtgcagccc 240  
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 ccggcaacag tgctgccagc agcagatgag gatgatggac gtgcagtcgc tcgcgagca 360  
 gctgcagatg atgatgcagc tngagcgtgc cgctgccgnc agcagcagcc tgtacgagcc 420  
 agctctgatg cagca 435

<210> 10505  
 <211> 282  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-004-Q1-K1-H9  
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg ggaaaaaata ataaagtaga 180  
 aaaaaaaag aatagaagga agaaaaataa attagtattg aattaaagat attaaaaaga 240  
 aaattaagag taaatgatta aaaaaagtga aggaatgaaa aa 282



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 <213> Zea mays  
  
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 <400> 10506  
  
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 gctaggagca gaagtcctgg caagcctgtg gaagtttcca actggtgatt gcatccacta 180  
 ggtgcaatcc aatttttgcg atggtgacga aaccaagtaa aagatggtag ctcgacaagt 240  
 tatattttcc tcttatacctg cttaaatacta aggatgtcct ggaacatcac taacttagga 300  
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 agagacgcct gattccatac catatgc 387

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 <213> Zea mays  
  
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 accgacgccg gcgcatctgc cacctgcggt tcacctgcca cctacggtgc atctaccacc 180  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-005-Q1-K1-A5  
  
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taccattcag ccagctagtt gctgcctacc cccagcaatt tcttccattc aaccaactag  180
cagcattgaa ctctgctgct tatttacagc agcaacaact actaccattc agccagctag  240
ctgatgtgag ccctgctgcc ttcttgacac aacaacagtt gttgccgttc tacctgcacg  300
ctatgcctaa cgctggcacc ctcttacaac tgcaacaatt gctgccattc aaccaacttg  360
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ttgcttatga gttata                                                    436

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<210>      10509
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<212>      DNA
<213>      Zea mays

<223>      unsure at all n locations
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<400>      10509

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acctacgacg agcagtgggc ggcccacaag agcagcagca agctgatggt gatcgacttc  180
tcggcgctcct ggtgcggggc ctgccgcttc atcgagccgg ccttcaagga gctggccttc  240
cgcttcaccg atgccatctt cgtcaagggt gacgtcgacg agctcgcgga ggtcgcaagg  300
acatggaagg tagaggcgat gccaacgttc gtgctggtca aggatgggaa ggaggtaggc  360
cgtgtgattg gngctaagaa ggacgagctt gagaggaaga tcaggatggt cgtcacgt   418

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<210>      10510
<211>      375
<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3059-005-Q1-K1-B12

<400>      10510

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cacaagctcc tatagcttcc cttcttcccc cgtacctgtc accagcgggtg tcttctgtat 180  
gtgaaaaccc aattcttcaa ccctatagga tccaacaggc aatcgagct gccatcttac 240  
ctttatcacc cttgttcctc caacaatcat cagccctatt acagcagtta cctttggcgc 300  
atctattggc aaaaaacatc agggcacaac aactacaaca actcgtgcta gcaaaccttg 360  
ctgcctactc tcagc 375

<210> 10511  
<211> 405  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-004-Q1-K1-H6

<400> 10511  
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acatggcccg catgcagcag ttggcagtg gacggcggc cgtgggtggc ttggtgctgc 180  
tgggcgccgc gacctcggag gcgccatca gctgcgggca ggtggcgctg gccatcgcg 240  
cctgcatctg ctacgcgcgc ggccagggct cggggccctc cgccggctgc tgcagcggcg 300  
tcaggagcct caacaacgcc gccgcacca ccgccgaccg ccgcgccgtc tgtaactgcc 360  
tcaagaacgc cgtcgccggc gtcagcgggc tcaacgccgg caacg 405

<210> 10512  
<211> 248  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-005-Q1-K1-B5

<400> 10512  
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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 120  
gggggctttt aaaaggaaaa aagtttaaat aggaattaat ggaaagtaaa aaatttttaa 180  
tggggttaaa aaaaatcaat ttaagggccg ttgtttaaaa aagtttttaa tggaaaaaac 240

ttgggggtt

248

<210> 10513

<211> 192

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-G12

<400> 10513

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atgtgaaatg gaaagtattg aactatagaa gagccagcat gcatttatga ggagtatgat 120

gacatctata atcttgcgtt gcttcaagta tcatcatgat ggattactgc tagtttgcta 180

ttgttgcaatt ta 192

<210> 10514

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-G2

<400> 10514

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aggaggataa ggtgattgtg ttcgaaaagg gagatttggt atttgtgttc aacttccact 120

gcaacaacag ctattttgac taccgtattg gttgtcgaaa gcctgggggtg tataaagtgg 180

tcttggaactc cgacgctgga ctatttggtg gatttagcag gatccatcac gcatccgagc 240

acttcatcgt cgactgttcg catgataata ggccatattc attcttggtt tatacaccaa 300

gctgaacatg tgtcggctat tctccagttg agtgatagcg gtgtac 346

<210> 10515

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-G3

<400> 10515

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ctggaggcct tacgcgacgc atccgtggcg gcgacccccg ccccggtttc tgtcctcagc 120  
 tgcgtccggc accctcgatc acctgaagtc gccgcctttc gcgcgtccgg ctgcccggaa 180  
 ccccgctgc tatccatggg atcgattctg aggacggcag aagaggacca tgttcatgca 240  
 gacacagtcg accccgaacc cgcagtcact catgttctat cctggaaagc cagttatgga 300  
 gattgggagc tctgatttcc ctaatgctcg gactgcatg acatccgcta tggctaagtc 360  
 gctttctgct attgatggag taaccagtgt attctctgga tctgattttg taactgttac 420  
 agaatcag 428

<210> 10516

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-G4

<400> 10516

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 ctgtgtccgg caccctggat cacctgaagt cgccaccttt cgcgcgctct gctgcccgga 180  
 accctgccta ctatccatgg tatcgatcct gaggacggca taagaggacc ctgttcatcc 240  
 atacacactt gaccacgcac ccgctttcac tcatgttcta tcccggatag ccagctatgg 300  
 agattggtag ctctgatttc cctaagtctc ggactgcagg gacatctgct tcggctaagt 360  
 ct 362

<210> 10517

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-004-Q1-K1-G5

<400> 10517

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 tattcttgga attcaagttc tttctgaagt aaatgaagct ttctgttagt acctactcta 180

tgtaatatat atttgacgct atgagtagtt ccatctttgc ttgtttttta tgaagttagt 240  
aatacctoca tatgtgccac atgtgtttga cattttgagc gttgttaagc tttttttctg 300  
aacaacata ggaggtctgc gtgccatttc attaacgccc cgtttggatc actggaattg 360  
aattccattc taataataat aatttaagca tatatcaatt aagctaattc attnttatac 420  
aaaatatatt tgtatact 438

<210> 10518  
<211> 387  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-004-Q1-K1-G6  
<400> 10518

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agaaccaatc aagtacaatg atggtctaga tcagtatcgc ctgtctccag cacagctgcg 180  
tgaagagttt gccaggcgca atgctgatgc agtatattgcc tttcagcttc gcaatcctgt 240  
acacaatggg catgctcttc ttatgaccga cacacgcaa cgtctccttg agatgggtta 300  
taaaaaccct gttcttctgc tccatccact gggaagattc aaaaagcag atgatgtgcc 360  
tcttagttgg agaatgaaac aacatga 387

<210> 10519  
<211> 425  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-004-Q1-K1-G7  
<400> 10519

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ccggcgggccg tccgcgagat gcagaaggat ctcgaggtec aggccaacgc cctcagcaag 120  
atccagaaaag acatcgccaa gaaccaccag gtccgcaagc agtacaccat ccaggtcggc 180  
gagaacgagc tcgtcctcaa ggagctggag ctgctcagcg atggggccaa cgtgtacaag 240

ctcatcggac cggtgctggt caagcaggac ctgcggagg ccaaggccaa cgtcaagaag 300  
 cgcatcgagt acatctccgc agagctgaag cggatggatc gggcgctcaa agacttggag 360  
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 caagc 425

<210> 10520  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-004-Q1-K1-G8  
 <400> 10520

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 tccaagacct acccgagca ggctggcacc gtccgtaaga acggcttcat cgtcatcaag 180  
 aaccgtccct gcaaggttgt ggaggtttct acctccaaga ctggtaagca tggccacgcc 240  
 aaatgccact ttgtcgccat agacatattc aatgggaaaa agcttgaaga tattgttcct 300  
 tcatcacaca actgtgacat tccgcatgtg aaccgtactg agtatcagct gattgatatt 360  
 tctgaggatg gatttgtgag ctttcttact tcagatggca acactaagga tgatcttaga 420  
 ctcccaactg atgagactct t 441

<210> 10521  
 <211> 276  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-004-Q1-K1-G9  
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 ccaaacctgt gattggataa agaatcgctt gggtgacaag gttgcacgtg ttggcatatc 180  
 taatcgtctg aggtcatcgc catgtggttc agttgcagcg aagattggtt ggatagccta 240  
 tattgaaagg ctaatgagag cacagactat gtgtga 276

<210> 10522  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-004-Q1-K1-H1  
  
 <400> 10522  
  
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 ggtggaggcc aagaactcgc tggagaacta ctctacaac atgcgcaaca cgatcaagga 180  
 cgagaagatt gcgtccaagc tgccggccga tgacaagaag aagatcgagg acgccatcga 240  
 cgcgggccatc agctggctgg acgccaacca gctcgccgag gcggacgagt tcgaggacaa 300  
 gatgaaggag ctggagagcc tctgcaaccc catcatcgcc aagatgtacc agggcgcggg 360  
 tgaagacatg ggcggcgctg gcggcatgga cgaggacgcc cctgccggca gcgg 414

<210> 10523  
 <211> 390  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 10523  
  
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 tttgccttgt tggacttggg agctgtggcg ttgccgaaat gggcgctccc taccacctnc 180  
 aatcaccaag aaccatcata accaaggtaa tgagcatgaa gcagctgcca ccggccctgc 240  
 cacagctgcc gtcgtcgccg gtggatcagt ccgaggtgac cgagcagaca tccgtgctgc 300  
 cacggtcgca gccggtggat ccaccacga taaccaggca gccacaggcg ccccggcagc 360  
 cagcgcggtc gccttccaag gtaatcctgc 390

<210> 10524  
 <211> 340  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3059-004-Q1-K1-H12

<400> 10524

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aaccctacag gatccaacag gcaatcgcag ctggcatctt acctttatca cccttggtcc 180  
tccaacaatc atcagcccta ttacagcagt tacctttggg gcatttattg gcacaaaaca 240  
tcagggcaca tcaactacaa caacttggtg tagcaaact tgctgcctac tctcagcaac 300  
agcagtttct tccattcaac caactagctg cattgaactc 340

<210> 10525

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-H3

<400> 10525

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gtagctctgg caaacctttc tccctactct cagcaacaac aatttcttcc attcaaccaa 180  
ctgtctacac tgaaccctgc tgcttatttg cagcaacaac tattaccatt cagccagcta 240  
gctactgcct actctcagca acaacaactt cttccattta accaattggc cgcactgaac 300  
cccgtgctt atttgcagca gcaaatacta ctaccattta gccagctagc tgcagcaaac 360  
cgtgcttctt tcttgacaca gcaacagttg ctgcctttct accagcagtt tgcggctaac 420  
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<210> 10526

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-G11

<400> 10526

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tctccaaca atcatcatcc ctattacagc agttaccttt ggtgcattta ttggcacaaa 180  
acatcacggc tcaacatctc gtgctagcaa accttgctgc ctactctcag ctacaacagt 240  
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<210> 10527

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-E3

<400> 10527

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catggaatag cgaagcgcaa ggacaaggca ttggcggcaa cgatgatcgt tctggcagtg 180  
gtcacgagca gcatcgccat tgcctcgaa atcatgagct ccatcagtga cgaagacaga 240  
agaggatcatg tagctggtag acgataatgg ctcaaatacga atcaaattaa aatgtgggtt 300  
ccaggccaac cgcgcgtgaa gattgctgct cgtgtcatgc gttcctactg ggtattcttt 360  
ctttgcagcg agattgcttt ggccctgag atgcaagttt agtctgtgcc ccctcatggg 420  
gtagatgttt gt 432

<210> 10528

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-E5

<400> 10528

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gaaccccgct gattatttgc agcaacagat actactacca tgtagccagc tagctgcac 180

aagccgcgct tccttcttga cacaggagca gacgctgcct ttctaccagc aggttgcggc 240  
 taacctcacg accattttac aactactaca atagctgccc tgtgtccaac ttgctttgac 300  
 aaaccgagta gcctgctacc aacagcacat cattgggtggt gccctattga agactgctta 360  
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<210> 10529

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-E8

<400> 10529

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 ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc cgcacaaccc 180  
 gctcccagc tgccgctggt acgtgaccag ccggacctgc ggcatcgggc cgcgcctccc 240  
 gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300  
 gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccggggcccg acgcgcagct 360  
 ggagggccgt ctagaggacc tgccgggctg cccgcgggag gtgcagaggg g 411

<210> 10530

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-E9

<400> 10530

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 agaggagcct cttcctgaag aaccgccttc tttctcaa at gaaatggcag tcgctcctga 180  
 ggagccagtg caagctccac ctgtgccact tcctcacgtg gatgagcctg tttgtgaacc 240  
 agtaaagaag acttatgctt ccactctaaa aaccgcaaag gctcctgcat tcccagtagc 300  
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<210> 10531  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-F1

<400> 10531

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gaattgttga gttgcggata tcattgtgct gctaagggtta atgtgacgat aaagttaatg  180
tcaagagtta ccttccttcg cgtgtatgta ctctgattat tcaggctgtt tttggctggg  240
attaatctgg tcttatctga attccctatc tgaaatagag aattgttcgg tgtgcatttt  300
gtgaccaata aatattttta atattttatt tttttattta atatttaaaa aagggcggtc  360
gtttttgagg ttccaagctt tctttctctt tcatgctact tattagctct tttttagtgg  420
tacttaaatt taatt                                     435
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<210> 10532  
 <211> 198  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-F10

<400> 10532

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cgtcaagggtt tgagaatcga ttcagtgtcc tgcacatatt catatgatac ttgctattgg  120
gagtatgatt ttcatgccac cttgcaactt gtcctacaac agagtgcgtg actccaatgg  180
tctgggagat cctcttta                                     198
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<210> 10533  
 <211> 417  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-F11

<400> 10533

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 cgttgacatt gaaaggaaaa gcatacgatg ctccgacaca aaaactgcat cagctttgtg 180  
 ttggaagatg tctacagaaa cccatgcccg ctgcatgtag aaggaccagg tgccgattca 240  
 aagcctatctt cattgggcgt ttgagatcaa gactatatgg gcagaataaa aaagtttgca 300  
 gaatacttgg agaaggtgaa aaggattgtg aagcctgtgt gctcgcagga tgttcttaaa 360  
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 acaaaaaata aaaaaaaaaa aaaaaagaaa caaaaaaaga taatatgcta aaaacacaaa 180  
 aacataaaaa tagaagatgc aaaaaaaagg gggcccaaca aaagaaacgc aggatttaaa 240  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-F5

<400> 10536

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ctaggaaaga gagtggctct gacattgtta ttgtagcaag gacagattct cgccaagcta 180  
tttctcatga tgaagcatta tggaggggtga aagcatttgc tgatgctgga gcagatgttc 240  
tattttattga tgcccttgct tcagtagaag agatgaaagc attttgtgcg gttgcaccag 300  
aagttccaaa gatggcaaac atgttagaag gtgggtggtaa aactcccata ttgagccctg 360  
ctgaacttga agaaattggt ttcaggcttg tagtatatcc tttatcctta gttggggtat 420  
caatgcgtgc aatgc 435

<210> 10537

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-F6

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gatgattctc actgccaaaa gggacctata tacctatcaa ctcaaacta aactatggct 180  
attataacaa gtctaccggt tgaatatcca aagcctataa aaagctatcg ttggatctac 240  
tgacaactga caccgacata gtaggtaatt tctcaaacta aatgtaatac actaggtacc 300  
acattataga acatcaatgc actgcttggt gtcattctaga tctacgggtca gagctgacga 360  
ctgatgactg aaacctgtga tcatgcatta cgt 393

<210> 10538

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-004-Q1-K1-F7

<400> 10538

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gcatctatca aaggaaccag acagcgatca tgagtttagg aggcaacgga gggcaataac 180

aaggactcat ctgacacaca aggattctgg gagttgagga gagtgcttca caacaagaga 240

tagagaaggc gtatcacaaa ttggctctgc gcctccaccc ggatacgaat cctgngaacg 300

agccaaagag aagtttcagt agttgcagaa ggttatatcc attcttgag atacagagaa 360

aagagcttta tatgatgaga ctgacatcag tgatgacgat acaatcttca ggagtacttn 420

cgaacaatgt acaaaaag 438

<210> 10539

<211> 299

<212> DNA

<213> Zea mays

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atcgatgtcc ttgtacttcc atggactata acggcaccgg cgctggagac tgggcgtaga 120

gcatctatca aaggaaccag acagggatca tgagtgtagg aggcacgga gggcaatatc 180

atggactcat ttgactcaca aggattctgg aagttgagga gagtgcttga caacttgaga 240

tatagaaggc ttatcacaat ttggctctgc tcttttatcc ttattctatt cctgtgaac 299

<210> 10540

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-F9

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tccgccaagg ttttgagaag cgattcagtg tcttgacat atccaatatg atacttgcta 120

ttgggagtat gatttttcat gccaccttgc aacttgtcct acaacagagt gactagactc 180

caatggtctg ggagatcctt ctttatatgt atgtccttta ttgcgcggac tggcattaca 240  
 ggagcacaat gccaaccttc cttttcctat atggtgctgc ctttgctgta gttcatttct 300  
 ttgccttggt ccaattcgta ttcaagcttc attacattgg 340

<210> 10541  
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 tactaagtaa taataacaca actcttgctg ttgctgcaca cttgtttttg acataagttg 180  
 ctttcctcct tggcttcttg catccaacag cagctgatca tctatgaggg atatctcaat 240  
 attgtacatg cacagcgaag cttccaaaca acagggcagc atcacaaggc aaaggatcac 300  
 aagaaaatat acacaaaaaa acactcacag ttcattcacat gccttaatgg ttttaagttat 360  
 tccaaagaat aggtctatag atcctngtcc cttgtatggg agaagagttc tttgatgatt 420  
 ggtgggag 428

<210> 10542  
 <211> 434  
 <212> DNA  
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 tcaggtttct gtggtcaata ctcgcatct tgaagatatt ttcaacagat ataaagaacc 180  
 tgatgctgat atgataatgg tggaaggaat atctcaattt tgcaatgatc tgcaggttga 240  
 tcctcaggat attgtcatgc ttgtcatatc atggcacatg aaagccgcca caatgtgtga 300  
 atttactcgt caggaattca ttggtggact gcagtcaatt ggggtagatt caatcgagaa 360



gtttcgtgga aaattaccat cattacgagc tgagctaaaa gatgacaata aattccgtga 420  
tatatacaac ttgtg 434

<210> 10543  
<211> 437  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-C7

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gctttgctaa ctaaaacaag ggatgatcca atttcctcaa agttcttcaa ctggcaagag 180  
gttgaaaagt ataaaagctt tgggtggcgtt cgcattgaaa gtgatgtgta tgtgacggct 240  
caaggatgcc ggaacctcac aaactgcccg agagagacct gggagatcga ggctgtaatg 300  
gctggcgcac catggcctct gccggcttca agttctatgg tggtagcagc agagaatagc 360  
aatgacatat ctaaagcgct gtaattttct ctatgctcaa tccatatccc gagttgaaac 420  
aaattcgacc tggattc 437

<210> 10544  
<211> 431  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-C8

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cgacaagaag gaggccgcca agctcgccgc gcaggccgca gccctagctg ctgccccgct 180  
cccggtcgcg gggccccgcg cgtcccagga tgccggcacc ccccgcgccg ctagctcggc 240  
ctcggctatg gatgtggaga tgtctgggtc agggaaacagc aggtctaaga ccatcttgag 300  
gccacttggc agcattagca agaagaaggt gcagcttcat ttgaagatca agaaagacaa 360  
gagaaaagct aggaagaagg gaaagttttc ttttaagaag tagacgagtg tatgataaat 420

catgcaggtt t

431

<210> 10545

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-C9

<400> 10545

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tgccatggac gcgttctttg cttcagcctg gaatgattcc ttccaggagg cttgccacaa 180

cggcatccgc atcatcgccc aacctggacg cagtatgaat gacgaggacg ccgtcgcgtg 240

ctgcaacaag tatttgtgtg cactcgggtct ctacggcatt aggcacttta tgcattatcc 300

gtcatgcccc atggct 316

<210> 10546

<211> 442

<212> DNA

<213> Zea mays

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<400> 10546

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tttttttctt atattttctta ttcatttttt atattttttg tgatttgttt ttttttttat 180

ttttatttgt tttttatcat atattttttt gttgttattt atcatatttt atatatttta 240

tattttattt attttttttt tttttatttt atttttttta tttttatttt ttgtatattt 300

atttttattt tcttttatat tatttttttt tattgttttt attttttttt tatttgtttt 360

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<211> 167

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 <223> Clone ID: LIB3059-004-Q1-K1-D12  
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 ctagctcatg ggatattgta cgctattact tcgaagagaa atcctagctc aagaagttgt 120  
 tcatagattc ttgtctgaga gtgtgctga caacagatgc tcgtact 167

<210> 10548  
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 <223> Clone ID: LIB3059-004-Q1-K1-D2  
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<210> 10549  
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 <223> Clone ID: LIB3059-004-Q1-K1-D4  
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 aagttagctg aactcgttac caagattgat aggctatcct tctaggagct ggagaaggag 180  
 cccaaaattc taagaactgt gatgctggta tgggtga 216

<210> 10550  
 <211> 390  
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<400> 10550

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tgccccagtt ctggactgcc acacctcaca cattgctgtc aagtttgctg agctcgttac 180  
caagattgat aggcgatccg gcaaggagct ggagaaggag cccaaatttc tcaagaacgg 240  
tgatgctggg atggtgaaga tggttccac taagcccatg gtggtggaga ctttttctca 300  
gtatcctcct cttggtcgat ttgctgtccg tgacatgagg caaacggtgg ctgtcggagt 360  
catcaagagt gtggagaaga aagaccccaa 390

<210> 10551

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-D8

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tcattattcc acaatgctca cttgtccta gtgccattat tccacagttc ctcccaccag 180  
ttacttcaat gggcttcgaa cacctagctg tgcaagccaa catgcaacaa caagcgcttg 240  
cggcgagcgt cttacaacaa ccaattgcc aattgcaaca acaatccttg ccacatctaa 300  
caatacaagc catcacaacg caacagcaac aacagttcct accagcactg agccacctag 360  
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<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-E1

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tgtcacactc tggccggcag caggccctgc agactgtgaa ctgccttggt gctagtgggtg 180  
 gcacaaacat tgctgatgca ctgaagaaag ctgcaaaggt tattgaggac cgaagccatc 240  
 aaaatccagt atgcagcatc attctcttgt ctgatggcca agatacgtac aatattccct 300  
 caaatattag ggggtgcccgg ccagaataca gttcactagt tccatcctcc attctaaacc 360  
 acacatttgg cttagtgccg gtgcatgggt ttggtttttg agtagaccat gattc 415

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 gtccaaagag ctttgagag ttgaaggcaa agaaagggtgt cggcagggtca ggagaagatg 180  
 ccgtcgtcaa gggcttaggt tcttctcgta tgacttcaga aatagtttgg agcaaggagg 240  
 ctgtttgggt gaaaggccca aagcccctaa gtgccatact gaagagaaaa agagagccag 300  
 cttctgaaat ccccgctgcc cagcctggca tcacacagga agcagataac tacgccgcat 360  
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 ggtctataat ctttacgaag ttctaggctt taaccggctt gctttggcca tcacaacatg 180  
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<210> 10555  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-C4

<400> 10555

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tcaaccaact caactcctcg ggcggcgcat atgacgacga cgaggatgac gagtaaagtt 180  
tcgtcccatc gaagtagtgc tatcttatgc ggcgatcagt attcgtgcta tggcatttat 240  
cgctacctgt agtctttcaa catgcattt 269

<210> 10556  
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<223> Clone ID: LIB3059-004-Q1-K1-A10

<400> 10556

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actttgttct gaagctccta ttccagagct gctagcaata tttacagcat gccacctaca 240  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-A11

<400> 10557

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taggaagatg aagggtttga agcagaagaa ggctcacctg atggagattc aggtcaatgg 180  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-004-Q1-K1-A12  
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 gtttacatgc tccaggacca ggaggctcat gctgcagaga tggagcgcac cttcattgcc 360  
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 <211> 372  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-004-Q1-K1-A4  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-004-Q1-K1-A7  
  
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 tagaagatat gttcaattca tcgaagtggc ttgtcaaaca gagaaacaat cttctatgg 180  
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 ccgcacagcc acgccaacgc ctcgtacttg ccgatgtgcg gggcaaggcg gtcgatgcag 360  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-004-Q1-K1-A8  
  
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 aacaccaaga agtatgccat acagagcttc tccaagagct tgtagatgt tgcagacaat 180  
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<210> 10562  
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<212> DNA  
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 <223> Clone ID: LIB3059-004-Q1-K1-A9  
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 tgtgccgcgt ctccacgac ctgttcggca cgtgggagtt cgacccact gagatcgaga 180  
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 <213> Zea mays  
 <223> Clone ID: LIB3059-004-Q1-K1-B2  
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<210> 10564  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-004-Q1-K1-B5  
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 ccaacttgct ttgacagacc cagcggcctc ctaccaacaa cacatcattg gtggtgccct 180  
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<400> 10565

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aagtgttgct accgcaacca ttttccaca atgtcacaa gtcctatag ctcccttct 180

tccccatac ctctcaccag cgggtgtctt aatgtgtgaa aaccaattg ttcaacccta 240

caggatccaa caggcaatcg caacaggcat cttaccatta tcacccttgt tcctccaaca 300

accgtcagcc ctattacagc agttaccttt ggtccatttg gtggcacaaa acatcagggc 360

acaacaacta caacaacttg tgctagcaaa ccttgctgca tactctcagc aacatcagtt 420

tcttccattc aaccaactg 439

<210> 10566

<211> 113

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-B9

<400> 10566

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<210> 10567

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-C1

<400> 10567

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cagcatgaag atggatcatc ttctcgtcgt gtgcctggct ctgtcagctg ccagcgctc 120

tgcaatgcag atgccctgcc cctgcgcggg gctgcagggc ttgtacggcg ctggctccgg 180

cctgacgact atgatgg 197

<210> 10568

<211> 415

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-C12

<400> 10568

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ctcggcgctc gcgagaaaac gcttttggag gaggatgttg ctttgaagag gttcaaataca   180
tacaagaaca gtgtgaaaca ggtctccaag attgggaatg ttctcacttt agctgttgta   240
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tcattattcc gggaagtgat ccatacagct agactgtcat tctatcagct cgtgttttta   360
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<210> 10569  
 <211> 206  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-G11

<400> 10569

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atctacctcc aataatatct tactattcac caactatcaa tcattgaact atactttatc   180
atataccgca tctacaacta ctacca                                     206
  
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<210> 10570  
 <211> 365  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-G12

<400> 10570

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gactccctcc cctcctcgat ccgttcgggc ggccggccgg cctagcttca agtgcgggga   180
  
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tgggtgttcta cttcaaggcg cggtcccgagg cgggcgacta taccatcttc atgggtcttg 240  
 acaagtacga gaacgaggac ctcacaaat acggcttccc cgaggacatc tggttccatg 300  
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 acatg 365

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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-003-Q1-K1-G2  
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 cggcgacagg ggggtggtgta ccggcacctg acctacggcg agaacttcac atcggaggcc 180  
 tgggaggagg agcggcacca ccagaggaac caggcgctag cgcacatcga gcggcaccgt 240  
 ctgcgcggcg tcgtcctctt cgcggggctc gccgacgtgt acgactgccg tctactggag 300  
 cagctcaggc ggcacatcag gacaaggagt gtgggcgcgt gggcagtggc gacagtatgg 360  
 gagcaggaaa agagggtggc cgttgaaagg cccgtcgtcg ttgcaacac caacaccacc 420  
 aacatcacca gcgcag 436

<210> 10572  
 <211> 458  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 10572

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 acataccaaa ggccagcatc ctcgtcgaga aagagccgag gctttcctct tttggtccaa 180  
 gccagagaga tgggaagtca gcggtgagga aagtgtccgg ggcaaccgtc gcgtgcatcc 240

cgctccgagt tgttttcagc aggatcaacg aggcgctgag cttctcagtt aatgagaatg 300  
ccctagctgg gtgtgggact gcttcccggc tgaggaatac ttggtagcta ggttttgctg 360  
tttgttgctt accgcttgct ttttttgtag ccatgccata atagcattgg taaatgttta 420  
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<210> 10573  
<211> 305  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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tgttgcctgt gttcattcaa ctcttcattc tccttacgac cacactatgt atggtcagaa 180  
ccttactgtt cagaatttct tcaattcatg agttcctgtt gctgtgcaag cagccttcca 240  
ctacaagtac gctgggagca agtacttgca gcctgcagct tatgacctgg ccgtttacat 300  
attga 305

<210> 10574  
<211> 421  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-003-Q1-K1-G5  
<400> 10574

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agacggggcg gcgcgacggc acggtgtcgc tggcgctcaa cacgggggag ctgccgtcgc 180  
ccttcgcggg cttcgcgggc ctgctgcaga gcttctcgga ccgggggctg aacctgacgg 240  
acctcgtggc gctgtcgggg gcgcacacca tcggcggtggc aagctgctcc agcgtcaccc 300  
cgcgctgta ccaggggaac gccagcagcg tggacctgct gctggactcg gcctacgcgc 360  
ggacgctcat gtcgtcgtgc cccaaccctg cgccggcgctt ggccaccgtg gcgcttgacg 420

g

421

<210> 10575  
<211> 435  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-003-Q1-K1-G6  
  
<400> 10575

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aagtcctat agcttctctt cttcccccat acctctcacc agcgttgtct tcagtatgtg 180  
aaaacccaat ttttcaaccc tacaggatcc aacaggcaat cacagcaggc atcttacctt 240  
tatcaccctt gttcctccaa caatcatcag ccctattaca tcaattacct ttggtgcatt 300  
tattggcaca aaacatcagg gcacaacaac tacaacaact cgtgctagca aaccttgctg 360  
cctacgctca gcaacagcag ttacctttgg tgcaattggt ggcacaaaac atcagggcac 420  
aacaactaca acaac 435

<210> 10576  
<211> 442  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
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<400> 10576

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aaaactgtgg ccctgccggg gggaacacca ccttgacagg agagccgaaa cctcctccat 120  
gcagggatct ggatgcctgc taggtttgct tcggagcatt acgagcacgc gcataacttg 180  
gctcgtactg taagggtgtg aaactgcaca cagcggaggc tgtgttattt gtattctgaa 240  
gctttcttgt gtttcgtcaa gaaagcttct ctaactttta tcctgcacta tcagataaac 300  
ggtaaattga tagagaataa gatgttttcg agctcatggt tagtggcaaa cgctntatat 360  
ttttggcaag ctgtgaagga gctgaaccag tgacaactcg aagaattcat tntgttgtat 420

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442

<210> 10577

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-G8

<400> 10577

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ggatgtgtta ttaaaaactg caagataaac cattctgtag ttggactccg atcttgcata 180

tctgaagggtg ctatcataga ggacagttta ctaatgggtg cggactacta tgagacagaa 240

gctgattaaa aacttcttgc cgaaaaaggt ggcattccta ttggtattgg gaaaaattca 300

tgcatcaaga aagcaatcat tgacaagaat gcttcaattg 340

<210> 10578

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-G9

<400> 10578

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gaaacaacat atacaaggaa gaagaaaaga cgaaaaaaca tcaagggcat gagcgggacg 120

gtagctggac ggccgcaaca tgaccgtcaa ctatggccca gtccagctgt cgctcgagga 180

ggcggcagag gcgggtacgg tggcgccgt ggacgcggcg gctacggcg aggcgggcg 240

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ggtggtggcg gcgga 315

<210> 10579

<211> 186

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-H10

<400> 10579

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tctctagtct ccagctctag ctagccttag cctcgtccaa gggacgaagg ggccaccatg 120

agcgtggtga tcctggacgg ctccacgggtg cgcggcttcg tggcggacga ggcggccttc 180

gcgcgc 186

<210> 10580

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-H4

<400> 10580

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ctttctgcaa gtgttgctac cgcaaccatt ttcccacaat gtcacaagc tcctatagct 120

tccctttcttc ccccatacct ctccaccagcg gtgtcttcaa tgtgtgaaaa cccaattggt 180

caaccctaca ggatccaaca ggcaatcgca acaggcatct taccattatc acccttggtc 240

ctccaacaac cgtcagccct attacagcag ttacctttgg tccatttggg ggcacacaac 300

atcagggcac aacaactacc acaacttggt ctagcaaacc ttgctgcata ctctcagcac 360

catcagtttc ttccattcaa ccaact 386

<210> 10581

<211> 399

<212> DNA

<213> Zea mays

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<400> 10581

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ctactacatt catggtcagt gtgccatcat tatgtttgat gtcacttcta ggctgacata 120

caagaatggt ccgacatggc acagggacct gtgcagggtc tgtgagaaca tccccattgt 180

tcttttggtg aacaagggtg atgtcaagaa caggcaagtc aaggccaagc aagttacatt 240

ccaccggaag aagaacttgc agtactatga gatttctgcc aagagcaatt acaactttga 300



gatgcccttc ctttacctcg ctaggaagct ggcattggat cagaaccttc actttgttga 360  
aactgttgct ctgaaaccac caaaagtga gattgatat 399

<210> 10582  
<211> 270  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-003-Q1-K1-G10

<400> 10582

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aatgctcact tgctcctagt gccattattc cacagttcct cccaccagtt acttcaatgg 180  
gcttcgaaca cctagctgtg caagccaaca tgcaacaaca agcgcttgcn gcgagcgtct 240  
tacaacaacc aattgcccaa ttgcaacaac 270

<210> 10583  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-E6

<400> 10583

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cgagaagagg atgagcacca caacggcgctc gtcgctgaac cccaacgcgc cgctcttcat 180  
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caccggctgg ttccgggacc actgcttccg gcagcgccag ctccacgagg ccgtctgcga 300  
cgacgtcgcc gcgctcctcc ccgacgacct cctcgacacc aacgacctct tctacgcgcc 360  
cgacgtcggt caccaccaac cagcgacggc gctgctgccc gggtagcatg tactcgacgt 420  
gctcgcgggc ctgag 435

<210> 10584  
<211> 432

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-003-Q1-K1-E9  
 <400> 10584

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 ctgcaagtgc tgctacggcg accattttcc cgcaatgctc acaagctcct atagcttccc 180  
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 aacaatcatc agccctatta cagcagttac ctttgggtgca tttattggca caaaacatca 360  
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<210> 10585  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-003-Q1-K1-F10  
 <400> 10585

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 taagagaatc tctgatccac aggctttaa ggaaagtcca gcaagggtg ttgctagcga 180  
 taagggtacc cctataccct caagtcttaa ccaggagaag gattcagtgg ctaagactat 240  
 accgaatagg gtgaaggaaa aaagtgatga cgaaggtaga cacttgcccc ctgaatttga 300  
 tggaaaagaa aacctggtgg tgaactcaaa aattgagaag tctgattctg gtgttgactg 360  
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 tagggat 427

<210> 10586  
 <211> 294  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-F12

<400> 10586

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ctacctgaag aaggttggat acaaccctga taagatccac ttcgttccaa tctctggttt 180  
tgaagggtgac aacatgattg agagggtccac caaccttgac tgggtacaagg gcccaaccct 240  
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<210> 10587

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-F2

<400> 10587

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ctttgaatac aatattattt tcatatgcag agttttatca ctagaatgtg aaattctgca 180  
atgccgtctt attatagttg ttaccaccct ctatcccgaa attataagtt gttttagctt 240  
ttctagggtta cataactttt gatatgcacc tagatataca atgtctacat acatagcaaa 300  
agttatgtgc cgaaaaatgc cgaaacaacc tataaattgg aacggaagga gtatttattg 360  
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<210> 10588

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-F4

<400> 10588

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cggcataaac ggggatctca tgagccagta cattgaattc gtggccgacc gcctgctcat 180

ggcgctcggg tgcaagaaga tgtacaacgt gaccaatccc ttcgactgga tggagctcat 240  
ctcgctgatg gggaagacca acttcttcga gaagcgcgtg ggtgactacc agaaggcatc 300  
cgatcatgaac agcctcaacg gcggcggcgc tgccgaccac gtcttcagca tcgatgagga 360  
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<210> 10589

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-F7

<400> 10589

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gtggaacgcc ggccgcgaga acctcgagtt caatttccgc tggaccgcc gcagcctcgc 180  
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attccatatg caggacgagg atgcaggccg gccatacagg aagttcctgt aagcggcgtc 300  
cagggccgca ggagacgtcg atccctcgac cggggctgcg aggaggggag tttccattca 360  
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<210> 10590

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-F8

<400> 10590

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ggatagatct cttgcccttg aactactttg gaatcaaact gtaaaaatga aaatatagt 180  
attgagccct tgtttgtatc agagaagcaa tatagctgac tagctcatcc attatcttac 240  
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atgtttgatg gaagtagacc agggactaaa ttgattgggg tcagctaaac cattctgtga 360  
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acattcttat t 431

<210> 10591  
<211> 437  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-003-Q1-K1-F9  
<400> 10591

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tcctcaatac tcacaagctc ctatagctgc ccttcttccc ccataccttc catcaatgac 180  
cgcttcagta tgtgaaaacc cagcccttca accctacagg ctccaacaag caatcgcaac 240  
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atcattggta caaaccatca gggcacaaca gctgcagcaa ctctgtctac cagtgatcag 360  
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ccaactgtct acactga 437

<210> 10592  
<211> 438  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-003-Q1-K1-E5  
<400> 10592

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gtcgccaggg ccctaagccg ctggaggctc gtcaagagct gatctgtgtt ttttctgtca 240  
caactgctct gggatatagg gtgcatccac atccaggaaa tccagagaga aaattcgccg 300  
cggtttgttt tttgtgttca tggatgaaag ctgaaatccc tggagcgaag tctcatgttg 360

aactcccctt tgttcatcag tgagtgagca atcctaagag gagtgcacct acattgaatg 420  
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<210> 10593  
<211> 442  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-003-Q1-K1-D2  
  
<400> 10593

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cggaacacat cgtcgccgga tcggagatga tgagttccgt cgtcgtggat gctgctgcta 120  
ccagcagcat cgagaagaaa acgtcgtggt cggagggtggt gggcatgtcc atcaaggagg 180  
cgaccgagac tattctcaag gacatgccca acgcgtacat gcagggtgctg cctgttgggt 240  
cgcccgtagc gctggacctt cgccccgacc gcgtacgtat cttagatgac accgtcgtca 300  
tgactccgac agttgggtga tacataccaa atgcaattaa cagaccctac tttgtatttt 360  
atgtttccag ataataataa accatgcctt agctctttgg gtgtccttcc ttggctgggtg 420  
ctagcttcta agctactagt ac 442

<210> 10594  
<211> 204  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-003-Q1-K1-D3  
  
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aacacatcgt ttcctgatcg gagacgatgt gttacgacag cattgatgct gctgctagca 120  
gcagcatcga ctagaaaacg tcgtgcgcat aggtggcgagg catgtgcatc atggatagga 180  
cagagactat gtgttaagga catg 204

<210> 10595  
<211> 409  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-D4

<400> 10595

cccacgcgtc cgggccaaga tgatgctggt gtggccatat ctctgagcagt gaagagagca 60  
cgtgttggcc ttaacgatcc tgatagacct attgctacgc tgcttttctg tggccaaca 120  
ggagtggta aaacagagct caccaaagct ctagcagcta gttattttgg atcggaatct 180  
gctatgctta ggtagacat gagcgagtat atggagaggc acactgtgag caagtcata 240  
ggctctctc cagggtacat tgggtatggt gaaactggta ctttgacaga agcagtcagg 300  
agaaaacat ttactgtggt attgttggat gagatagaga aagctcacc tgatattttc 360  
aacatccttc tccaaatatt ggaggatgga catttgacag actcacagg 409

<210> 10596

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-D5

<400> 10596

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ccccagcaat ttcttccatt caaccaactg gcagcattga actctcctgc ttatttacag 120  
cagcaacaac tactaccatt cagccagcta gctgggtgta gccctgctac cttcttgata 180  
caaccacagt tggtgccgtt ctaccagcac gctgcgccta acgctggcac cctcttacia 240  
ctgcaacaat tgctgccatt caaccaactt gctttgacaa acccagcagc gttctacaa 300  
caacccatca ttgggtgggc cctcttttag atttcttatg agttatagtt caataataaa 360  
gttttttgct tg 372

<210> 10597

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-D6

<400> 10597

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aaccattttc ccacaatgct cacaagctcc tatagcttcc cttcttcccc catacctctc 120  
accagcgggtg tcttcaatgt gtgaaaaccc aattgttcaa ccctacagga tccaacaggc 180  
aatcgcaaca ggcattcttac cattatcacc cttgttcttc caacaaccgt cagccctatt 240  
acagcagtta cctttgggtc atttgggtggc acaaaacatc agggcacaac aactacaaca 300  
acttgtgcta gcaaaccctg ctgcatactc tcagcaacat cagtttcttc cattcaacca 360  
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tgctgcctac cccagcaat 440

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<211> 314  
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<213> Zea mays  
<223> Clone ID: LIB3059-003-Q1-K1-D7  
<400> 10598

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agactacaga gtgtgttagt tgttgtgcaa gtacgtgcag gcgatgtgct tatgagtcag 180  
tgtttagagt tattcatgtc tgcttgccgg actagccctg gtcctgctgg agcggagctg 240  
attgccccaa tgcgccagtt ctgcaagctg ctgagcacat taaagctgcc gccgactgat 300  
gacgctatgc tctc 314

<210> 10599  
<211> 414  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-003-Q1-K1-D8  
<400> 10599

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cggcgggggc ggggaccgct gaacagtga cagcaccacc acgtttgtcg ctaactcgct 180  
attttcacaa cagcatcggg attggatttt tgagcgttgt ctctggcatt tttcatgtat 240



tttagggcta gtttggcaaa ttcatttttc caagtgattc cgattttcct aaggtaaaat 300  
gaactaattt ccttggaaaa atgaataaaa aaaatcacta gtaaaaatgg gattgccaaa 360  
ctgtccttta ttagacaatt tctgccgtac tctactcggt actgattaac tgac 414

<210> 10600

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-D9

<400> 10600

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aacgtagctg cataccagca acaacaacag ctgcaacagt ttatgccagt gctcagtcaa 180  
ctagccatgg tgaaccctgc cgtctaccta caactacttt catctagccc gctcgcggtg 240  
ggcaaattgca cctacgtacc tacaacaaca gttgctgcaa caaattgtac cagctttgac 300  
tcaactagct gtggcaaacc ctgctggcta cttaca 336

<210> 10601

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-E10

<400> 10601

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tctccgtgct cgcggctgcc agcgcacagc cccggacatt ctgcgtgccg ggggtggcca 180  
tcccgcacaa cccgcttcgc agctgccgtt ggtacgtgac cagccggacc tgcggcatcg 240  
ggccgcgcct cccgtggccg gagctgaaga ggagatgctg cccggagctg gcggacatcc 300  
cggcgtactg ccggtgcacg gcgctgagca tctcatgga cggcgcgac cccccgggcc 360  
cggacgcgca gctggagggc cgtctagagg acctgccggg ctgcccgcg gaggtgc 417

<210> 10602  
 <211> 432  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-003-Q1-K1-E11  
  
 <400> 10602  
  
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 gtggagggaa ggccatccga ccagctgggc aggagaaacc tcactgacag ccccgatattt 180  
 gacggccgtg gccctgacgc cagcctcgtg gctcgcgtac agggagtcgc taccagatg 240  
 ggcgacgtgc gccagttgta caccgtcgtg ttccaggaga ggccgtcaa gggctccacg 300  
 ctcgtcaccg aaggcgcgat gacagaaggg tcagacgagt gggcgatcta cggtggaact 360  
 ggagtgttcg cgatggcgag aggcgtcata aggagaacgt ttcttgccga cacgagcggc 420  
 gggaactccg ac 432

<210> 10603  
 <211> 172  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-003-Q1-K1-E12  
  
 <400> 10603  
  
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 tgctgccctt ccgcgggatc cctgaagggtg ccgtcgtctg caacgtctag caccacgtct 120  
 gtgaccgcgg agacttcgcc agcgcctgtg tggactacgc cattgagatc ag 172

<210> 10604  
 <211> 119  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-003-Q1-K1-E2  
  
 <400> 10604  
  
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gtgtggaatg ccaatcatgt gtgtaatctg ttggcaaata acaaacctct gttcctccc 119

<210> 10605

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-E3

<400> 10605

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tgcagcggcg accgaagcgc cccccgggaa gaatactatt gttgtagggg tccaccagag 120

ccagcacatg ttctaccctc tccagtggca ctgcatcact tattcccgtc aggccagccg 180

tagcaatacc gcctagtcgt cgtaaccgcc aagcccaccg ccgtcttcgc cgtcggcctc 240

accggcccaa gcgcctcgga tgtgtgcccg tacgtggaag ccgatcttaa gcgcctccgc 300

ctgctcgttt ttgaaaaagc caaaggcctt tgcacacagg cgaacgacgc tttatttgaa 360

gcgctggaag gggacgcttg gaacgtcctt tgctaagctt tcaagaggca cggggc 416

<210> 10606

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-E4

<400> 10606

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gtcgggtggt accagtttct gttgtttttg tgccgcgcag gtctatgcaa acgtctcagg 120

agaggcgccg ctggatgagc ctatgatcga cgtgagttcg agtcagttct acggtgaagg 180

atacgatgac agtgataaga gaattcctga catgactata atcaacaagc agctaggttg 240

gaacccaaag acacctctca aggatctgct ggagacaaca ttgacgtacc agcacaagac 300

atacaaagaa gctgtgaaga ggcaaatgtc gcaggcttca gcaacaagtt aagttggcgc 360

tggctgggga cggctcctcg tttagagccc tagtcgcagc agctgtttcg caagtcagaa 420

tacatatatc ccggtaatc 439

<210> 10607

<211> 318  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-003-Q1-K1-D1  
  
 <400> 10607  
  
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 agggcccaga gcgggacagt tgccgtatag gactctcttg ccaggctttc aagatggacc 120  
 agatcaaggc tgacatgaat aacggcgtgc taagggtcac cgatctgaat agcaaagacg 180  
 aggaacacca tgacgtattc gagatcaaga tcgactatgg ggtgtgcatc ggatggggcc 240  
 tactaggtgt cctatttgca atccatatat gtccatatcc gtaatgcagt gcatattcat 300  
 atcggaaatg ccatgagc 318

<210> 10608  
 <211> 315  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-003-Q1-K1-B11  
  
 <400> 10608  
  
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 ctgtgtccag ggagcgtca gcttgatctg cgagggtgtg cgtcctaggt ggttataaga 180  
 tatgcgctgt atttgcatct atcagaactt gtgtacttcg tatattacga acttgagaac 240  
 tgtatggatg tgtgcattgt gccaaaaaaa aaataaataa tgaagtttaa aaaaaaaaaa 300  
 agcttatata tatag 315

<210> 10609  
 <211> 282  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-003-Q1-K1-B12  
  
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tgagatgatg agtgccgtcg acgtggatgc tgctgctaac agctgcaatg tgcagaagac 120  
 gtacaggacg caggtgggtg ctcatgctga taggggtggcg actgaaacta tgggcacgga 180  
 catgcagcac gagtacatcc aggctctggc tgacattgcg cacgtgacgc tggatgttcg 240  
 atgcaagggc atcagtgttg tacatgacac tgaagctatg ac 282

<210> 10610  
 <211> 319  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-003-Q1-K1-B3  
 <400> 10610

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 acaacaaaac atccccgcca ccgtcccggc tgctcatgca tcgtctgcat ccaaccacca 180  
 agtgggaagg gtccaaagca caagcagaca tgcacctgta acgtttgtat gacggttcgc 240  
 cgtcgtttta ggacactcat gcttcgacgc gagaagaagg tgacaagaga ttcctctcgc 300  
 aagaaagaga cgggccaat 319

<210> 10611  
 <211> 181  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-003-Q1-K1-B5  
 <400> 10611

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 ataaagtttt ttggatgatg tatgtggcca accagaaata agaagttaca tttccagatt 180  
 c 181

<210> 10612  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-B6

<400> 10612

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ctactgatgc cattggctac catgaacca tggatgcagt actgcatgaa gcaacagggg 180  
gttgccaact tgctagcgtg gccgaccctg atgctgcagc aactgttggc ctcaccgctt 240  
cagccgtgcc agatgccaat gatgatgcca ggtatgatgc caccgatgac aatgatgccg 300  
atgccgaata tgatgccatc gatgatggcg ccgactatga tgtcaccaat aacgatagct 360  
agtatgatgc caccgatgat gatgccaaac atggtttcac caatgatgat gccgagtatg 420  
atgccttcga cgatga 436

<210> 10613

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-B7

<400> 10613

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aatacatatg cctgtaccta gctagaataa aaggattcat cagcagataa acattcagat 180  
gtaaacgaga agactagagt gtgaaattaa ccaggagcaa tatatagtga ttaaaccgat 240  
gcactcgagc ataatacaca tgagaagacc agatctatgt taacctataa taagaaa 297

<210> 10614

<211> 130

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-B9

<400> 10614

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gcggatattt

130

<210> 10615  
<211> 417  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-003-Q1-K1-C1  
  
<400> 10615

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accttcttca tcagagttgg acatgagga gttttcattg acacgaatgg aagatagatt 180  
tataaaccca gcaattctgt atatacaggt cacagttggt aaggagtccg gcaagttggt 240  
tgtagaggaa taccgtttac cagaagtaa agcaaacacg ccactatatt ttgatttccc 300  
agatctacaa caggatgcgc gctgtgttat ctttagattg cttggtgacg tcactgcctt 360  
tgtcgacgac atttctgagc ttgagaactt aaacttgccg aatcttcctt tggcgctc 417

<210> 10616  
<211> 201  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-003-Q1-K1-C11  
  
<400> 10616

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ggccaccggc tgtttcagta gagattatcc ggcaatctct tattagaagt tgtgatagca 180  
tattcagaag cacctttatg c 201

<210> 10617  
<211> 237  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-003-Q1-K1-C2  
  
<400> 10617

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 gaggcaatga gctgtatgtc atgttttaag agtaaaatgt gatttttgag gggtttccat 180  
 ctaggaacat taacatttaa actgtatttt tttggcctat aaactttcac tggagat 237

<210> 10618  
 <211> 398  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-003-Q1-K1-C3  
 <400> 10618

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 acgacgtgag aaacgggtgga tcggggacac acaagcacia tgagcttgcg agtgctggct 180  
 gaagaaacat aaggatgtca tggcccctgc tgttattgca aagggggagg acgtcatgtg 240  
 gacttctggt ctaatctttg gaaaatgaaa ggggattgtg gggcttgaaa caaatttaag 300  
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 gtcctgggc ttgcgcaact gtgctggatg cagatttt 398

<210> 10619  
 <211> 445  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-003-Q1-K1-C4  
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 gcgacaatth tccctcaatg ctcaaacgt cctatagctt ccttcttcc cccatacctt 180  
 ccatcaatga tagcttcagt atgtgaaaac ccagctcttc aaccctatag gctccaacia 240  
 gcaatcgag caagcaacat acctttatca cccttgtttc aacaatcgcc agccctatct 300  
 ttggtgcagt cattggtaca aaccatcagg gcacagcagc tgcagcaact cgtgctacct 360



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ccattcaacc aactgtctac attga 445

<210> 10620  
<211> 437  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-003-Q1-K1-C6  
  
<400> 10620

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ttcccgcaat gctcgcaagc tcctatagct tcccttcttc ccccgtaact ctcaccagcg 180  
gtgtcttcgg tatgtgaaaa cccaattctt caaccctaca ggatccaaca ggcaatcaca 240  
gctggcatct tacctttatc acccttggtc ctccaacaat catcagccct attacatcag 300  
ttaccttggg tgcatttatt ggcaaaaac atcagggcac aacaactaca acaacttggt 360  
ctagcaaacc ttgctgccta ctctcagcaa cagcagtttc ttccattcaa ccaactagct 420  
gcattgaact ctgggtc 437

<210> 10621  
<211> 435  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-003-Q1-K1-C8  
  
<400> 10621

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ctctccagct ctactcccag aaccggaagg tcttcttcgc ctccaggctg aagaggtacg 180  
gcgagggtgt caagacacac gtgctgggtt gccctgcgt gatcttggcg agcccgagg 240  
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aggagcgcgt gattggcgcg caggccctct tcttccacca gggcgactac cacctccgcc 360  
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tcgaggccgc cgtgg 435

<210> 10622  
<211> 195  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-003-Q1-K1-C9  
  
<400> 10622

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acttctataa aaacttctgt ccaaacaccg aatgaaaatc catgatatag cttcttattc 180  
acataaagtg agaaa 195

<210> 10623  
<211> 432  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-003-Q1-K1-B10  
  
<400> 10623

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atatcttacc attcttccca gacttcgtat tgattgacga tttcaaagag gaaatatgca 180  
aatctctgaa ggactacaac agccagattg agcagctcaa gcaggagatg gatgatgcca 240  
cacgtggggc agataatatc agaagtgata ttggtgccct cgctcagaga tatacagtaa 300  
ttgaccgtga gcaggattgt ggggtttgcc ggcgcaaaat attgactgtt ggagggttgc 360  
accaggtagg gagaagctat acatctgttg gacacatggc ccccttttat gtgtttccct 420  
gtggacatgc ct 432

<210> 10624  
<211> 380  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-002-Q1-K2-H3

<400> 10624

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tcagtttgct tcatgttgcg caggcttaga tctgaatgcc ggattcttcg tcttacggct 180

tgaatcgagc tgggaggctg tggatctgat cacgggaggt acaacatata cgcgtgtatg 240

acgagttgga tcggcaccgg atagtctctg accgcaagac tatgttgatg cgttgggctg 300

atctgccgcg ttgttctgct tcaggttcta gagctagcga aatcgcaagg ctattatggt 360

tccttttcgga gcgcgtctga 380

<210> 10625

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-H4

<400> 10625

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aggctcttga tcagatcacc gagcccaaga gaccctcaga caagcccctg cgtctcccc 180

tccaggatgt gtacaagatt ggtggtattg gaactgtgcc agttggctcg gtggagactg 240

gtgtcatcaa gcctgggatg gttgtcacct ttggtccaac tggcctgact actgaggatg 300

agtctgttga gatgcacca 319

<210> 10626

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-H5

<400> 10626

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gacaactgct ccacaactgg ttgttcggga tctaggaaat ggtctccacg cttggattac 180

atcttgaccc accagggctc tgtgactgct gacaagactg caccgatcaa ccaagacctc 240  
atcagcaact tcatgtgtga ccctgtgcac ggcgccatcg aagtctgcgc tcagctgagg 300  
cctaccgttg acatctcagt gaccgttgat gcagatttcg tgcgcccaga gcttcgacag 360  
tatttataag cgtgta 376

<210> 10627  
<211> 351  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 10627

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ggcacttctg atgcaccggg gcttcaagtt ctccatcacc aacttactgg tgtggcaacc 180  
tgccgacagt ccgcagtcaa ccgacgtcac ctgccacttc tccccggacc gctctacgga 240  
cccagtcgtc gttcagctcc agcaccagca gcagcagcac aagccgaagg aggcgctggg 300  
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<210> 10628  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-H7

<400> 10628

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ggatgcgtgt gctgaggcgc cttctccgca agtatcgtga ggccaagaag attgacaagc 180  
acatgtatca tgacatgtac atgaaggcca aaggtaacgc cttcaagaac aagaggggtgc 240  
ttatggagag tatccacaag tccaaggctg agaaggccag agagaagaca ctttctgacc 300  
agtttgaggc caagcgcgcc aagagcaagg cgagccgtga gaggaagatc gctaggaggg 360  
aggagagggt ggcccagggt ccacgagaaa taacaccacc tgtctcattc acagctccag 420

ctactggggc

430

<210> 10629

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-H8

<400> 10629

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caagaaatcc atcgagaggc cgtcgacagg ggaattaatg gcgtcgtcgt ctagcagcag 180

ccaccgccgc ctcatcctcg cagccgccgt cctgctctcc gtgctcgcgg ctgccagcgc 240

cagcgccggg acctcctgcg tgccgggggtg ggccatcccg cacaaccgc tcccagactg 300

ccgctggtac gtgaccagcc ggacctgcgg catcggg 337

<210> 10630

<211> 136

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-A1

<400> 10630

cccacgcgtc cgcggacgcg tgggggccac tgaagcgaag tcgaagagcc atgagtctga 60

ttcgttggct ttgagggagg agatcagatt actgactgat aacctggagt ctattataag 120

tgaagctctg tcacgt 136

<210> 10631

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-A11

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tcactctgct agtgttttga ctttcaatgc acctggatgc ttgtcgtact gaatgctgtt 120

gatcttttaa agctattgcc attttaccat ctctgttttg ttttctagct ccagtgcac 180  
gtttgtatat catcatctcc tgcgtatgtg cacagagtag tcatttacct gaatcatcct 240  
tgtgtaccct ttggaactgc ataattgaac tgcgctattc tagatctgtc 290

<210> 10632

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-A2

<400> 10632

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aagtgggtgt tctaatacga gagccgttcc ccattgctagc tcttgatgcc ctgtgcaagc 120  
agctccacga cggattaag gatgtgatgg agatgcagaa ctcggttcac tcgcgactag 180  
ttgccaagac tgctacggac cacaggggca gtaggcgca gaacaatggg tggcctagct 240  
ccaaaagaga aggagccaag attgattgag cacgcaaggc cggtcgggtc gttgtgaatt 300  
tatttgaaga tagcattgca agcaatctgt ggcaaccaga tatccatgaa cgaactggag 360  
aacttgtgga cccatttcc ttctgcaatg gtatgtacct gtcctatgta aaatgcactc 420  
gctactgctt ggatagctac t 441

<210> 10633

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-A4

<400> 10633

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agttaccatt catgttcaac ccaatggcca tgacgattcc acccatgttc ttacagcaac 120  
cctttgttgg tgctgcattc tagatagaaa tatttgtgtt gtaccgaata atgagttgac 180  
atgccatcgc gtgtgactca ttattaacaa taaaacaagt ttcc 224

<210> 10634

<211> 413

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-003-Q1-K1-A5  
  
 <400> 10634  
  
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 cgtttcttat ggcaaaatca tgaatggctt ggtgccatat ttcagcgtcc aagtgcacgc 120  
 caccctgctg ctgttctctc cccagccgga catgatcctg gaagggatgg ttgaaatgat 180  
 tgggaaggag tcaattcatg ccattgtatt aggggttttc tcagtggcaa ttatgtctga 240  
 agatattaag ttcaaattca aatggaaaag tgatggaagg aaatttgtga gcctcacaga 300  
 taaaaaacat gtgattgaaa gaggaacaat gataaagttt tctgtcaaaa ggggtggatac 360  
 agaaatgagt ngtcataatta ctggatcttt aatcccacct tacactggat gca 413

<210> 10635  
 <211> 373  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-003-Q1-K1-A7  
  
 <400> 10635  
  
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 aattctcaat gatgactgcc ctgattgtga tgagtttctt gctgccgata ctttggaggg 120  
 tgatgttctg gaggaaggta aaggccattt ggatacttat ggatcttgtg catccataaa 180  
 ggatcaaatt tcaaaactgg gtaatcaaag tactggctgt gccatagggt gcacaccctc 240  
 aacttggcat aatagaaatt ccgagaagaa aagcataacg tctgtcaact tgattcctaa 300  
 agagagccac aagagggata aaaattcact gttgcaatgt gaagggatta taaaatcgga 360  
 aggtactatc ctt 373

<210> 10636  
 <211> 325  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-003-Q1-K1-A8

<400> 10636

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cattgttggt gatgactgtg gttatgacta tgagtttctt gatatcaatg ctattgatga 120  
tgatgggtcat gatgaagggt acgaccttaa ggatccttat ctatatgctg cataatctaac 180  
tgttcagcag ttagcactgc ttattttaaaa agctgaatat gccatacact accaacactt 240  
tatgtgtgat actggagacc atgctactac tggcgtatct ggtgaccatt ggtttgaacc 300  
cgagagatac gcgatgtgta gactg 325

<210> 10637

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-H12

<400> 10637

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caatggagca gcttggataa agaaatttta catgtgcaaa cgggcgctag taacagtgca 120  
tgcattccaa accaggtcct ttgagcaatc tgagtaactg tagttacaga gtacaatata 180  
tccaaagcac actatccttg aattacagag ctcaaaccac ctgaacttgt tattgtggac 240  
ttttttcatt tcatcgctgg ttctccctcc tgcgtgcgta gcgggtcctg tcattgtacc 300  
taggcctgtc tgcagccctc tgtggcacgc gctcgaccct tctctgcctc tcaggaggcc 360  
tctgaacaat ctcaccgttg acaagcagtt cagctccgt 399

<210> 10638

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-F8

<400> 10638

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agaagatcaa ggctgtcgtc aagaagatgt atgacatcca ggcaaagaag gtcaaacact 120  
tgatcaggcc tgatgggaag aagaaggctt acgtgaagct gactcccgac tatgatgctc 180



ttgatgtggc caacaaaatc ggaatcatct aagtgtctgca ttaggcatct gttgattact 240  
agctcaatct gttgtgtgct agttctatgt gaaaccagag ttttggagct atggatctca 300  
atcgttccat taccatgtgt tatgcacac 329

<210> 10639

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-G1

<400> 10639

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aaagcagagg caccatcttc tggagagatt aaaaattacc gctttagatc tgatgtgcct 120  
tgtccacctt ctcatactgc ttaggaggt ccagcttcac tccttcctaa gcgcaaacc 180  
ctgactgaag aagagattga ggctattatg ctgggggggct ccatttgata tcacctcata 240  
tgaattggaa attctaggaa catcaataag attgtatacc cgaactta 288

<210> 10640

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-002-Q1-K2-G10

<400> 10640

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cgtgcccacc ggcaccgctc agtgctagcg cgcgctcatg gcgtcgcttg gccagctcct 120  
cctcgctgcc ggccctggcct tcctgggtgct gctgctgggt gccaggatc acgggcgtgg 180  
agagcaagcg accggcggcg gcccggccgt tggagcagca gccgccgcg ctgctcctcc 240  
cgcgcgggag gctgtaatca tcagccggca ccagcattcg cagccgtcgg ccgcggcgat 300  
ggcggagagc aagcggctcc ccacccctcc gtccggggcg tccactaagt ggaactacga 360  
ggcgaatcac gagaagccgt cgtcgtcgga gtcgggctcg ggccgncgnc gntcggggtg 420  
gtggtggtcc ccgtg 435

<210> 10641  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-G11

<400> 10641

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 tcgttttgat gatgggggtg gtggtgacaa tgagggtgcag cgtacaatgt tggaaatagt 180  
 aaaccaactt gatggggttg atgcaagagg gaacatcaaa gttctcatgg ccactaatag 240  
 gcctgatacc ttggatcctg cacttctgcg ccctggtcgc ttggacagaa aggtggaatt 300  
 cgggctacct gacttggagg gccgtacca aattttcaag atccatacac gtaccatgaa 360  
 ctgtgagcga gatattcggt tcgagcttct ggcacggctc tgccccaact ctactggagc 420  
 tgatataagg agcgtttgca caga 444

<210> 10642  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-G12

<400> 10642

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 tggcaaacct ttctccctac tctccgcaac aacaatttct tccattcaac caactgtcta 180  
 cactgaaccc tgctgcttat ttgcagcaac aactattacc atttagccag ctagctactg 240  
 cctactctca acaacaacaa cttcttccat ttaaccaatt ggccgcactg aaccccgctg 300  
 cttatttgca gcagcaaata ctactaccat ttagccagct agctacagca agccgtgctt 360  
 ccttcttgac acaacaacag ttgctgccgt tctaccagca gtttgcggtt aaccccgcaa 420  
 ccctcttaca actac 435

<210> 10643  
 <211> 263

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-002-Q1-K2-G2  
  
 <400> 10643  
  
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 atcatcacca accgtgtcta tacaatacat acagatctca tccctgatgt tcaagatagc 180  
 tactgaatcg cattctcaaa tattatgaac agattaataa tatcgctact tagatatgca 240  
 gtcacatgtc catgttctca tac 263

<210> 10644  
 <211> 460  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 10644  
  
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 atggttcgtg gatgcacagg gatcaatata agtacctttg tgcccatggg ttcgtggatc 180  
 actgtgcatg tgttcttccg cgtctttggt gttattttgg ctccatctgt atgatttaac 240  
 aaaggaaggt tcattagatg ggccacattt acacactggt tatccacacg ggtccactga 300  
 tactcttccct tttgccacca tgggctctgg ttctcttgct gcaatgtcag tgtttgaatc 360  
 gaagtacaaa gaaggcctta ctagggagga gggaatacag attgtgtgcg aagcaatctg 420  
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<210> 10645  
 <211> 346  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-002-Q1-K2-G6  
  
 <400> 10645

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 aaaaataaga tggatgctc tagcatggat agcatcatgg accctggcga tggatacat 120  
 acggatgtta ttctgttgt tcaagatggc tacagccttg cttttcaga ttttctcagt 180  
 tctgatatac catgctaccc gtcaatgcaa tcagatcttc atgctggaat aagtgccaac 240  
 gactcagagg gtattaccgt tatggatgat cctatatatg ggtctctcgc tgatattggt 300  
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<210> 10646

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-G8

<400> 10646

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 tgttacata gttcatagta gtaagaaggt caatgcatat gatgtggacg atatggatat 180  
 gccattacat cggtagatca atgatccagt tgcccatgag actattcata ctggctctac 240  
 ctttcagatt actggtgtaa ccaacaactg atattttgat agagcacatg atgttcgaca 300  
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<210> 10647

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-G9

<400> 10647

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 cagggagtga ttcttgaag cagtacatga ggagggcgac ttgtacaatc aactatggga 180  
 gcgagctacc tctagcccag ggaatcaatt ttggttaatc ctgcagaaat gttgcgcgtg 240  
 gatctcagtg ttttctgcag acgtggatgc cgtatggaaa gaactgatgc aaccgcat 300

gagatctcag cagacttgag cagcatttat tggcgtcagt tgtgaaactt aaactgcagg 360  
agcatcttgt acataaataa aataagatgt 390

<210> 10648  
<211> 432  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-002-Q1-K2-H1  
  
<400> 10648

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aggacgtcgc aaccgcgcag accatcacgc gaccctcatg atccgggtag gggctaaagc 180  
agaggcacca tgttctggag agattaaatg ttaccgattg agatctgatg agccttgtcc 240  
accttctcat actgctgtag gaggtccagc ttcactcctt cctaagcgca aaccctgac 300  
tgaagaagag attgaggcta ttatgctgga gggctccatt tgatatcacc tcatatgaat 360  
cggaattctt aggaacatca cttagattgt gtaccgggac ctattgactt tgacctctga 420  
aagagtgtta tt 432

<210> 10649  
<211> 434  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-002-Q1-K2-H10  
  
<400> 10649

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gctggttggtg tacaagacgc ggaagacatg aaacgagagt gcaagcagtt tgagctattc 180  
ccagcgaacc caaagttgcc accgtcggca gcatgttggtg ctgtgtggaa gagggcagat 240  
gttccatgcc tatgcaaata tgtaacaag gaagtagaga aggtatgggtg catggagaag 300  
gttgtgtacg tcgccaaacta ttgtaagagg ccgtttcaac ctggctacaa gtgccggagt 360  
tatacagttc ctcttagtat gtaaaaagga gtggttgagg catgtggtac tctctcctag 420

aactttaatt tgag

434

<210> 10650

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-H11

<400> 10650

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cagcaactcg tgctacctgt gatcaaccaa gtagctctgg caaacctttc tccctactct 120  
cagcaacaac aatttcttcc attcaaccaa ctgtctacat tgaaccgtgc tgcttatttg 180  
cagcaacaac tattaccatt cagccagcta gctactgcct actctcagca acaacaactt 240  
cttccattta accaattggc cgcactgaac cccgctgctt atttgacga gcaaatacta 300  
ctaccattta gccagctagc tgcagcaagc cgtgcttcct tcttgacaca gcaacagttg 360  
ctgcctttct accagcagtt tgcggctaac cccgcaacct tcttacaact acaacaattg 420  
ttgccctttg tccaacttgc ttga 445

<210> 10651

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-F7

<400> 10651

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aagtcctact ccaccctcgc ctccctctgc gacgaacttc tcctccaggc cgcgtcccag 180  
ggattcacca ccgacgaatg gccctactct gtccacctgc ttgcccacct ctacatcaat 240  
gacctgaaca gcgcgcgggt cttctggaag tcgttgccgc aggaggtcaa ggacacgcgg 300  
ccggagctcg ccgctgtctg gaggattggt cagtgcctct ggaaaagaga ttatgctggc 360  
gtcaaca 367

<210> 10652

<211> 104  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-002-Q1-K2-E1  
  
 <400> 10652  
  
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 taccagataa aggttacaac gactgcatta gctcttctca tatk 104

<210> 10653  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-002-Q1-K2-E10  
  
 <400> 10653  
  
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 tcgacagcaa aaaagagaaa aaaagatgtg acatcctaga ggaggccttt gccatgatgg 180  
 gtgcgctcgc atggcaagcc aggtattaat aaaaagatga ttattgtgtg ccgggggggag 240  
 agatcgacag ggggggtgatg tttttggccc cgggggtctcc tccctcatct tgttccgtgt 300  
 tcctgtatcc gttgtttccg cgctctgttg tccgctgcgc acgccggatt tttgcatcga 360  
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<210> 10654  
 <211> 438  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-002-Q1-K2-E12  
  
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 accgcctccg ttctatatgc cgcctccgtt ctatctgccg ccgcagcagc agccgcagcc 180

atggcaatac cccactcaac caccgcagct aagcccgtgc cagcagttcg gatcctgcgg 240  
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 cagccccggc gcgacgcctt acggctcgcc acagtgccag gcgctgcagc agcagtgctg 360  
 ccaccagatc aggcaggtgg agccgctgca ccggtaccag gcgacatacg gtgtggctcct 420  
 gcagtccttc ctgcagca 438

<210> 10655

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-E2

<400> 10655

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 caaccagcgt atagtgaagc ttatagctga gcttatgagg aaccatgaca gccctgaagc 180  
 gttggtgata ctgctagtg ccttcgacct tctacttcgt gctaccgatg gaatgctcgt 240  
 cgatggtgaa gcttgtactt tgccacagct tgagcttctg gaagtgaccg ctcgggctgt 300  
 ccatcttata atcgaatggc gagattcagg tttatcagtt gcagatggtc tttcaaactc 360  
 gctga 365

<210> 10656

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-E4

<400> 10656

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 aacagctgct tgcattcaac ccacttgctt tggcaaactg agctgcatac caacaacaac 180  
 aacagttgca acagtttctg ccagcgctca gtcaactagc catggtgaac cctatcgctc 240  
 acctacaaca gcaacaactt ctttcatcta gcccgtcgc tatgggcaat gcacctacat 300



acctgcaaca tcagttgttg caacaacagt tgctgcaaca tattgtacca gctcttactc 360  
agctagctg 369

<210> 10657  
<211> 386  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-002-Q1-K2-E5  
  
<400> 10657

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agagcgataa ttgctctgat ggcccatcct gaaccagaca gccacttaa ctgtgattca 120  
ggcaatctcc tgcggtcggg tgacatcaga ggctatcaat caatggcccg catgtataca 180  
aggctggctg ccatgccaaa gaaagggttag atgtagaaca tgtgccaagc caagagccta 240  
tgtcagtcca tatgttgtca ggtttgctgt gtgctgtctg tctgtgaact tggtggttct 300  
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cccgatgctn ggtctgtgat gtaata 386

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<211> 391  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-002-Q1-K2-E7  
  
<400> 10658

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ggcgcggcac ggatcgagcg atggcgggtgg cccctcctac ggcggcggcg ctggagcagc 120  
taagcagcag caagatgttc gacggcttca atctccgctt ccgccaccag agcgccaccc 180  
ttggttgcgc catgactttc tccatctacc tgcccccgtc cccggcggtcc aaccttcccg 240  
tgctgtactg gctctcgggt ctcacctgca ccgacgagaa tttcatcata aagtcggcg 300  
cccagcgcgc cgccgctgcc cacggcatcg ccctcgtggc acctgacacc ttcccacgtg 360  
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<210> 10659  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-002-Q1-K2-E8  
  
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 tcttggcagc ggcgctgctg ctgctggcgg cggggggcgg gacggcgctg gcggcggtga 180  
 gctgcggcga ggtgacgtcg tcggtggcgc cgtgcctcgg gtacgcgatg ggcagcgcg 240  
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 cggcggaccg gcaggccacc 320

<210> 10660  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 10660  
  
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 tatagcttcc ctttttcccc cataccttcc atcaattata gcttcagtat gtgaaaaccc 180  
 agctcttcaa ccatataggc ttcaacaagc aatcgcagca agcaacatac ctttatcgcc 240  
 cttgttgtgt caacaatcgc cagccctatc tttggtgcag tcattggtac aaaccatcag 300  
 ggcacaacag ctgcagcaac tcgtgctacc tggatcaacc aagtagctct ggcaaacctt 360  
 tctccctact ctccgcaaca ccaatttctt ccattcaacc aactgtctac actgaacc 418

<210> 10661  
 <211> 188  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-002-Q1-K2-F1

<400> 10661

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tcttgtgttc ctgttcaggg tcttcagcat gacataaatc gtttcagaag tctagtaata 180  
ttattatt 188

<210> 10662

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-F10

<400> 10662

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cgccggcggg ctgtaccctt acgcggagta cctgaggcag ccgcagtgca gcccgctggc 180  
ggcggcgccc tactacgccg ggtgtgggca gacgagcgcc atgtaccagc cgctccggca 240  
acagtgctgc cagcagcaga tgaggatgat ggacgtgcag tccgtcgcgc agcagctgca 300  
gatgatgatg cagcttgagc gtgccgctgc cgccagcagc agcctgtacg agccagctct 360  
gatgcagcag cagcagcagc tgttggcagc tcagggtctc aaccccatgg ccatgatgat 420  
ggcccagaac atgcc 435

<210> 10663

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-F12

<400> 10663

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cgcgccatca aggtggctcg cagccggcg tacgaggaga tggtgaggaa ctgcatgac 180  
caggatctct cctggaaggg cctgccaag aactgggaga acgtgctgct cagcctcggg 240

gtcgccggcg gcgagccagg ggttgaaggc gaggagatcg cgccgctcgc caaggagaac 300  
 gtggccgcgc cctgaagagt tcggcctgca gggcccctga tctcgcgctg ggtgcaaaga 360  
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<210> 10664  
 <211> 302  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-002-Q1-K2-F2  
 <400> 10664

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 cctacagcag caacaattgc tgccatacaa ccagttctct ttgatgaatc ctgtcttgct 180  
 gaggcagcaa cccatcgctg gaggtgccat cttttagatt acatatgaga tgtactcgat 240  
 aatgggtgcc tcataccgac gtgtgtttcc tagaaataat caatatattg attgagattt 300  
 ac 302

<210> 10665  
 <211> 145  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-002-Q1-K2-F5  
 <400> 10665

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 tatagtggat gcactgggtg gggtt 145

<210> 10666  
 <211> 336  
 <212> DNA  
 <213> Zea mays  
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<400> 10666

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ttgacctttc cgaggaggac ctgattgaga agtttgccac tgggtgtctcc atggttgcct 180

ccctgtcact ggcgatctcg taccgaccc ttgctgctgt gcccacatg ttcataatg 240

ggtacaagaa tgtgcttgcg gttgctgtcg agacagacta ctgtaccca catgctgaca 300

agatcaagga gtaccttaag gacccaagca agtttg 336

<210> 10667

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-D9

<400> 10667

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caagctccta tagcttcctt tcttccccca tacctctcac cagcgggtgc ttcagtatgt 180

gaaaacccaa ttcttcaacc ctacaggatc caacaggcaa tcgcagcagg catcttacct 240

ttatcacctt tggtccttca acaaccgtca gccctattac agcagttacc cttgggtgcat 300

ttgttggcac aaaacatcaa ggcacaacaa c 331

<210> 10668

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-B5

<400> 10668

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aaaggaaaga caaaaacata taacaacaaa cacaagacaa ctaatactaa aaggcggcgt 120

cctgttttgc ggtgccagc tggtgtcacc ctcagctccg agaccttctg cctgccatgg 180

tggcccataa ttcaaataca cttcccgagc tttcacatgc tcgtgaccgg aaaaacc 237

<210> 10669  
 <211> 137  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-002-Q1-K2-B6  
  
 <400> 10669  
  
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 tctcagtttc atcaatcacc atatacgaaa taatgtccat gctgatgtta accattgtta 120  
 aaatgccttt acctaac 137

<210> 10670  
 <211> 377  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-002-Q1-K2-C1  
  
 <400> 10670  
  
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 agggccagtc ccgcggcggc cgtggaggcg gcggcggtgg gtacgggtgg ggccgtggag 180  
 gcggcggtta cggcgggtgg gggcgccgtg atggcggcgg cggctacggc ggtggcggcg 240  
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 caagttatcc tgttcgc 377

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 <212> DNA  
 <213> Zea mays  
  
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aagcaggggg cttcatccat atgggacgag taaatggaag tttaaacttg tcaagggcaa 180  
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 ccaatcctga tatcaatgtc gtggagctct gcgatgatga cgactttgtt gttgtagcat 300  
 gtgatggcat ttgggactgc atgtcaagcc aacagctggg ggattttatc cacgagcgta 360  
 taaacacgga gagcagcctg tctgccgtgt gcgaaagagt gctggacaga tgccctggctc 420  
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<210> 10672

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-C3

<400> 10672

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 ttcgcgtccg cctcagcccg ccgcagggag aggttaagttc aggagacatc ttcgagaagc 180  
 tgaaatggct cctaaagctg ctcttgccaa gaagggtgat gccaaagacc aggcttgaa 240  
 ggttgccaag gctgtgaagt ctggggcagc caagaagaag accaagaaga tccgcacgtc 300  
 tgtgacattt caccgcccc aacccctgaa gaaggctagg gaccccaagt acccacgaat 360  
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<210> 10673

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-C7

<400> 10673

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 tgcattgaggc gtacaagaag aagaagctga tgacgctcga cctccgacac aggaagaccc 180

gagccatcct caggcgctc accaagcacc agctatgctt gaagaccgat agggaaaaga 240  
 agcgtgagaa gtatttacc atgaggaagt acgctatcaa ggcctagatc agtgaaagaa 300  
 cattcatgct gtcaagcttt gctcagaagg tacttgaatt tgagacaaat gtatctgcat 360  
 ccaagttcta tgcattctgat caactgcatg atgaaaaact agtacttttt gct 413

<210> 10674

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-C8

<400> 10674

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 ctgcatgagg cgtacaagaa gaagaagctg ctcacgctcg acctccgccc caggaagacc 180  
 cgatccatcc tcatgcgcct caccaagcac cagctatgct tgctgaccga taggtaaaag 240  
 aagcatgaga agtatttacc catgaggaag tacgctatca aagcctagat cagtgaagaa 300  
 acattcatcc tgtccagctg tgctcagaag gtacttgaat ttgacacaaa tttatctgca 360  
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<210> 10675

<211> 74

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-D12

<400> 10675

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<210> 10676

<211> 223

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-D5



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 aaaaaaaaaa aaaaaataa ataaaataaa aaagacgaca agg 223

<210> 10677  
 <211> 312  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 cccctgagtt tgccgaatc actgattacc aaggacctga ccatgggggt gttgaccagt 240  
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 <213> Zea mays  
 <223> Clone ID: LIB3059-002-Q1-K2-D8

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 tctccaggg gaatcggata cgccacaggc tgcgcgatgg tgctgtgggt cttcggctac 240  
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<210> 10679  
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 <213> Zea mays  
  
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<210> 10680  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-001-Q1-K2-H7  
  
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 tatacacaag tacaatccta ttgttttatc taccatggaa caatctcggt acaatatcat 240  
 tgttgaaact actgagcttt atctttagat ttgactgata gatctgcaag aggacttcat 300  
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<210> 10681  
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<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-001-Q1-K2-H8  
  
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 ggggtacaggg tgggcattcg caccctaac cacaggaaaa catgttgtgg acattgcgaa 360  
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 <211> 441  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-002-Q1-K2-A12  
  
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 <212> DNA  
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 <223> unsure at all n locations

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<400> 10683

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gccctcgcac ggatcgaaaa gctttcgaa gtaaaccgca tgcttggtt cctgggctgc 180  
aagcttggtat tatcgtaccc tgagctaaca gaaatgcaag cccgtgccat ctttgaagct 240  
gctatagcga tgaccaacca aggcgttcaa gtctttccag agataatggt tcctcttggt 300  
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<210> 10684

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-A5

<400> 10684

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tcgaaagaca gcatgtcagc gtcgacgaca tcgtctgtca cgacggcagc gtttgagcgc 180  
attccgagag cttccccgag ttaaagcctg acgaggatgc tggatcata aaggactttg 240  
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<210> 10685

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-A6

<400> 10685

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gctcaagggt aaccaaatac gatctgtgac tgagagtatt gaggtgtga agatgtcaaa 180  
gcgtgcgggc tgggggtgtga tgactagtca taggagtggg gagactgagg acactttcat 240

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<210> 10686  
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<223> Clone ID: LIB3059-002-Q1-K2-B1  
<400> 10686

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tcgagcccg tggcgaggc aggcgcccga tcgccgtctt ccgggagctt ccggggggcc 120  
gtcggatgga gccgtacgcg gcggcgaaga gcggcggggc cgacgccggc accggcaccg 180  
gactggaaga ctgatgctg aggtctggggc tcggcgacga cggggaagca ggggaggaga 240  
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gtacggtga gcgtgccgc tacaaccacc cccgcgatcg gccggccccg gttaatggag 360  
ttggaaagac cgcagttaca gtggagtacc cagagcgttc tgga 404

<210> 10687  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-002-Q1-K2-B10  
<400> 10687

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gacttcgcca actacttctg cacgtacgcc tacctttacc accagaagga gatgctctgc 180  
gaccgcgtcc gcatggacgc gtaccactcc gccgtcttcc gcaacgcgcc ccacttccag 240  
ggcaaggtgg tccttgacgt gggcaccggg agcggcatcc ttgctatctg gagcgcgcac 300  
gccggggcca ggaaggtgta cgccgtcgag gcgactaaca tggcgagca cgcgcgcgag 360

cttgctcgcg ccaacggcgt cacggatata gttgaggtga tacagggcac cgtggaagac 420  
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<210> 10688  
<211> 265  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-002-Q1-K2-B11  
  
<400> 10688

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tccaagcatg gaagtcgcgg cggcgtcggc gaggcccgtc ctgcgcgtgg ctgccatctg 120  
cggctcccta cgcaaggcct gcttcaaccg cggccttctc cgcgccgacg cggaggtgtg 180  
cgaggactcc atcccggggc tccgcatcga cgagctcgac atctgcgacc tgcccatcat 240  
caacaccgac cttgagaccg gcagc 265

<210> 10689  
<211> 416  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-001-Q1-K2-H5  
  
<400> 10689

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gagcgccagg ctgaggtctc caacgcccc gcctacggcc gcccgagta cgggtggcccc 180  
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tgttgtecta ctatgctaaa cttcttttag atctttggtt gcatctgtgg cggttaagtt 300  
ttgaacttgc ctgntatggt ataaattctg aagtgtttgg gtctgcgtgt gatgaacatg 360  
atatgtatat tcttgcgctt tataaggtag tatgagatgc tcatatTTTT ttgact 416

<210> 10690  
<211> 433  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-001-Q1-K2-G12

<400> 10690

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gcgagtgtgt tagctcaaaa aatccaattt aacacatttg gtggaaatcc agtttgttct 120
gctgggtgggt tagctgtgct taaggttctt gacaaggaga aacgccaggc acattgtgct 180
gatgttggat ctcaattgtt ggagcgtcta aaatcgcttc aggagaagca cgaaatcata 240
ggatgatgta gaggaagggg actgatgctt ggggtggaac tcgttacgga cagaaaggag 300
aagacccctg ccaagtcaga aaccattgaa ctgtttgaga agctcagaga tctcggngta 360
ctagttggaa agggcgtctt gcatggtaac gtcttcagaa taaaaccacc gatgtgcttt 420
tcgaaggacg atg 433
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<210> 10691  
 <211> 446  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-001-Q1-K2-G3

<400> 10691

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gcaatgcaga tgccctgccc ctgcgcgggg ctgcagggtc tgtacggcgc tggcgccggc 180
ctgacgacga tgatgggcgc cggcgggctg taccctacg cggagtacct gaggcagccg 240
cagtgcagcc cgctggcggc ggcgcctac tacgccgggt gtgggcagcc gagcgccatg 300
ttccagccgc tccggcaaca gtgctgccag cagcagatga ggatgatgga cgtgcagtc 360
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ctgtacgagc cagctctgat gcagca 446
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<210> 10692  
 <211> 333  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-G4

<400> 10692

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cgctgaagct taccttggca gcacgatcaa gaatgctgtt gtcacgggtcc ctgcctatatt 180  
caacgactcg cagagggcagg ccacaaagga tgctgggggtg attgctggcc tcaatgtgct 240  
gcgtatcatc aatgagccaa ccgctgctgc tattgcctat ggtcttgacc agaaggcaac 300  
cagtgtccgt gagaagaatg tcttcatttt tga 333

<210> 10693

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-G5

<400> 10693

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cttacaccat gaacactgct agtgcggtca ccgtcaggag cacgatccgc cgcttgaggg 180  
agcagactga agcatgatat agctctttat attattgggg tttcctgtag ttgctcttgt 240  
caggcatgtt gtgggggcct tctctagtgg aaatgtggaa tcaactgtact ggctgttttg 300  
ccgagacaat gctccttata tttggtttat gctctaggat ctcaaagttg tgggtgttaag 360  
atttgccctc ggttaccgtt ctg 383

<210> 10694

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-G6

<400> 10694

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ccctgctgcc tacttgcaac aactacttcc attcaaccaa ctgactgtgt cgaactctgc 120



tgcgtaccta caacagcgac aacagttact taatccacta gcggtggcta acccattggt 180  
cgctgccttc ctacagcagc aacaattgct gccatacaac cagttctctt tgatgaaccc 240  
tgccttgctg tggcagcaac ccatcgttgg tggtgccatc ttttagatta catatgagat 300  
gtactcgata atggtgccct catagcggca tgtgtttcct aaaaataatc aatatattga 360  
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<210> 10695  
<211> 446  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-001-Q1-K2-G7  
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gtgcaacaac acgaacagag ccatgagcaa cactaaggac agagccatga gcaacaacat 120  
caacaacaat tcaaggggtca tgacaagcag taactaccat aacagtctca gcaatatcag 180  
caggtccagg aaataatcga caacagcaac aatgtcattg ccaggagcag caacagacta 240  
caaggtgcag gtataactac tatagcagta gctcaaactc aataaattgt catgaatatc 300  
taatgcagca gtgcagccct ttggtaatgc cttttctcca atcacgtttg atacaaccaa 360  
gtagctggca agtattgcag caacaatggt gtcattgatc tatgcagatt gagccacaat 420  
acattcacca agcaatctac aacatg 446

<210> 10696  
<211> 423  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-001-Q1-K2-G8  
<400> 10696

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cgcattgcgtt gaagggttac ggggtgggcta tctggccgtt cgtatcgagg gctctgctgg 180  
ccctggagga ggccggcgct gactacgagc tcgtcgccat gagccgccag gaccgccacc 240

accgacgacg ggagcaccta gccaggaacc ctatcaggaa ggtgccagtg ctgaggatg 300  
gcgacctgac gcgcttcgaa tcacgcgcga tcgcaaggca tgttggttcgg aagcacaagc 360  
cgtagctgat gggcggcgcc atgctggaac aaactgtgat ggtggacgtg tggctggagg 420  
tgg 423

<210> 10697  
<211> 438  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-001-Q1-K2-G9  
<400> 10697

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tccacaatgc tcaacttgctc cgagtgccat tattccacag ttctctcctc cagttacttc 180  
aatgggcttc gaacacccag ctgtgcaagc ctataggcta caacaagcgc ttgcggcgag 240  
cgtcttagaa caaccaattg cccaattaca acaacaatcc ttagcacatc taaccataca 300  
aaccatcgca acgcagcagc aacaagcact gagccaccta gccgtggtga accctatcgc 360  
ctacttgcaa caacagctgc ttgcatccaa cccacttget ttggcaaacg tagctgcata 420  
ccaacaacaa caacagtt 438

<210> 10698  
<211> 418  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 10698

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ttttccctca atgctcacia gctcctatag ctctcccttt tccccatac cttccatcaa 180  
ttatagcttc agtatgtgaa aaccagctc ttcaaccata taggcttcaa caagcaatcg 240

cagcaagcaa cataccttta tcgcccttgt tgtgtcaaca atcgccagcc ctatctttgg 300  
 tgcagtcatt ggtacaaacc atcagggcac aacagctgca gcaactcgtg ctacctgtga 360  
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<210> 10699

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-H10

<400> 10699

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 tcactttctg actttttcac tgattttggt tatttacctc gcgaagaact cagatttcca 300  
 gctaaaaagc ttagggcact atggttttcc ccgccacta atgatggcta ctctggaact 360  
 ggtacatatg gacctttgcc aaggatattc atttcagaac ttcttggtga tgagttgact 420  
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<210> 10700

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-H11

<400> 10700

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 tggtcagcca cgttgccggg aagaactccg tcctgagcga cttgccggcc gccgtcatcg 180  
 ccagctcgta tgccatctgc atggaggaag ctgcagagct caagaacggt aggaagcatg 240  
 agctggctgc gcttactcct gctggcagtg gcagctacca acaagggtcaa gctggcagcg 300  
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attaaacaaa gc

372

<210> 10701

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-H12

<400> 10701

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gtagtggcag tattgctgct ctgattagtt tcttgtcgag tgtgcatgaa atggctgtga 120  
gatctgctga tgtttctttc cggtgtagaa tggaatcgtc tcccctaata ataacaataa 180  
taatacattc tgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaac caaatctaaa agacacaaaa catacaaaga 300  
aatacaataa acataataga caccaaaaaa aaatacactg aacaaaatta aaaaaaacta 360  
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<210> 10702

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-H3

<400> 10702

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ccgcagacca gcacgcgacc ctcatgttcc ggtagggggc taaagcagag gcaccatctt 180  
ctggagagat taaaaattac cgctttagat ctgatgtgcc ttgtccacct tctcactg 240  
ctgtaggagg gccagcttca ctcttccta agcgcaaacc cctgactgaa ggagagattg 300  
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<210> 10703

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-H4

<400> 10703

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ctatgttagg aactgccgca acgggaggtc gccaaaggag actagatggg ggttccatga 180  
cgacacggtg taatgatctc tgtggcattg cctgtcagcc ttctgtactg tgatatactt 240  
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aagcttacct tgctgtgggtg gtatgtaaat gagttgctca cgtgtcagtc tgggaatatg 360  
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tgaaacgagc tcaaa 435

<210> 10704

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-G11

<400> 10704

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aaaggaaaaa aaaaaaaaaa aaaaaataa aacacactaa taaaaaaaaa aaaaaaaat 120  
aataataaaa aaaaaaagtg ggctccattt aaatgatcca agtttactta ccattacttg 180  
caacgatata aatctactat atggtgacct aaatttaata tcatgaccct ctttttaaaa 240  
tattacaact cta 253

<210> 10705

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-E11

<400> 10705

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ctaattggctg cgctgctggc ttctgtccgcg tcggcggcga tcacctgcgg gcaggtgggg 180  
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 tgctgcaacg gcgtcaagag cctcaacagc tcggcgcgga ccatctcgga ccgtcaagcg 300  
 gcgtgccgat gcctcaagag cctcggcaac agcgttaaga gcgtcaacat gggcaccgtc 360  
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 tgc 423

<210> 10706  
 <211> 400  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-E12

<400> 10706

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 cttcacaacg ccttcaccac ctacaacgaa aaccacgctt ccaataccaa cctcgatcac 180  
 aatacacata agaacctagg ctatctatca gacacctatt ccactctata taccatactt 240  
 aacaccatcg aattcataaa ctgcattatc acatactaac ctatcaacaa cgttaaccag 300  
 gccagatct atcacaagca aagattccac gaccttgtgt accctctagc tcctcttacc 360  
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<210> 10707  
 <211> 423  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-E5

<400> 10707

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 aagaagtctg gcatcaagcc tgccaaggct ctgacagttg atgggtgctga gattgatgag 180  
 gtggagctta tcagagacag tgatcatatt cttctcgtca gtgatgaatg ggtgccagat 240

gttgcacaaa ttatgcctaa acaataagtg agccagctgt agagctctta ttgcaatttg 300  
 acatgatatg ggaaaacatg cccctgtgac cctgtgtgca tgtccacatt taaactgaag 360  
 tgtagcttat gatggttttg aagctttatg atgcattcag cttggaaatg aattcgtact 420  
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<210> 10708

<211> 83

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-E6

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<210> 10709

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-E7

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 agtcggccta caaaaacact gtcgagggca taactgggat catctcgaaa accatctcaa 180  
 agaaagggat gcttgaagtg tacaactctt tgagcgagga aggcaaaaag gagttcaaca 240  
 aggcttatag cgcacgtttt taccatgca tggatatact ctacgaatgc tatgaagatg 300  
 tggcctctgg aagtgaaatc cggagcgtgg tgttggctgg gcggaagttt tatgagaaag 360  
 agggcctccc agcttttccg atgggcaaca tcgaccaaac tcgcatgtgg aaggttggtg 420  
 aaaaggtgcg ctc 433

<210> 10710

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-E8

<400> 10710

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tgcgaaaaca ttgtgtactc catttgagca gccagaactt ccagaaggta ccttggtgctt 120  
tgcatctgga aagccagcaa agaagtgggtc gttttggggc cgcagctact gattgccttt 180  
gctgggagtc cttttggatt cagtagtgaa ccatgtaact tcgagatttt ggatacaaat 240  
cggaaaatcc atttacattg tctttacatc gacttgcagt tctgatgtca tcacagctga 300  
aaaaaagcca ttgattccag tggacaaa 328

<210> 10711

<211> 121

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-F1

<400> 10711

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<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-F12

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gctgcctact ctgagcaaca gcagtttctt ccattcaacc aactggctgc attgaactct 240  
gctgcttatt tgcaacaaca actaccattc agtcagctag ctgctgccta cccccagcaa 300  
tttcttccat tcaaccaact ggcagcattg aactctgctg cttattttaca acagcaacaa 360



ctaccaccat tcagccagct agctgatgtg agccctattg ccttcttgac acagcaacag 420  
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 <223> Clone ID: LIB3059-001-Q1-K2-F2  
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 aattgagaaa gatgtaaaaa ctcggacaaa aggggaactt ggagctgcga aaacattgtg 180  
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 agcgaagaag tggtcgttct ggggccgcag ctactgattg cctgtgctgg gattatttct 300  
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 accagcgcag ttcaccaaac tcaccttcgg aaacctgtac atccgccggg ccgggccggg 240  
 cagcagggag ataaccgagg agggcaggtg cgacctggac aagagatacg tgagtgactt 300  
 cccgtctac gacggccgcg gccccgacgc cagccttgtg gccgcgtgc aggggatcac 360  
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<210> 10715

<211> 464  
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gtatagcact acaaacatgt ctatatatat atagcatcat gctaataaat aggaatataa  240
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gcaaaacttt atagattcca a                               321
  
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<400> 10717

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acgcatcact acaacgccaa catccgagct tcttatcact agccgccgaa tacgcattcg 180

tatctgcctt agtactgatt catctagata ggacacagct ccagctgcta gagatcgaat 240

ggaccacgca gaaggactat tacatcatga acaatcttgt caacaagatc cgatctgtga 300

tatacgtctt ccatgttcac 320

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<212> DNA

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tacgtgcccc ttgtgaggcc ccacgaaggc ttggccgcaa cgatctcgta ctggcaagag 180

cggaagagaa tggagctgga tggcccgacc atatttactt ggctggccgt aacgatcggg 240

atgctggccg tgttttctgc cgctgcctc ccgccagtcg gcccgttgaa atgggtgctc 300

gacgtccaca tgtttgtttt ccgctcgatg ctcgtgatcc ggctgggtctt ggcggtagcg 360

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aggaacgctg 430

<210> 10719

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-G10

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gcggctcgctg ctgacgcctc ctccagtaca agcggcggct gtggctgcca gacaccaccg 120

tttcatctac cgcctccgtt ctatatgccg cctccggtct atctgccgcc gcagcagcag 180  
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 tcttgccggcg tccgcagcgt cggcagcccg ttcttggggc agtgcgtcga gttcctgagg 300  
 caccagtga gcccggcggc gacgccctac ggctcgccac agtgccaggc gctgcatcag 360  
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 <212> DNA  
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<223> Clone ID: LIB3059-001-Q1-K2-E10

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 tctattgact catgtaacat ggaggccagt gtagtcaaga cttgcgtaaa tctcctcgag 180  
 gatacatggc aacttcagtt gtcatacaat gaacagaatg aaactaaaac gaatgacgag 240  
 ctggaaagat gcacaagcag ttttctgaag ttgaccaagc atcatctttc ctatatcaag 300  
 gaagttctta gcccatcaat tgagcggata cgcacatacg tggataattc ggagtcctta 360  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-C4

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 catcattcta aagatccaaa ttttcgtaca cgttcattca atgtcataac ttttttataa 180

tttgacttaa attaaattaa ctggacctct atttacaact tctaaccttt taaaaccttg 240  
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<210> 10722  
<211> 437  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-C5

<400> 10722

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ccaacggacg ggaagctggt atggtttctg gacaaggcgg cggcatcatt ccttgactcc 180  
aagaacgacg atgacgacgc ttgctacgag cgtcatgagt gactaactcc gaggatcctt 240  
ggtcgttttg aagcgaatga acggaggtgt gtgtaagtag gtggttgctg atgatggaag 300  
acgcgctgtt ccccttttag ctcatgcat gggttaattt tgttctgagg gtttttagct 360  
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tgtatgcgat gttgagt 437

<210> 10723  
<211> 213  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-C6

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gcgtgtgcat attgctgcaa acattatccc actctctcgc catgctgaag acaatgatcc 180  
acgacgcatg actatgccaa ctaccaggag tta 213

<210> 10724  
<211> 408  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-C7

<400> 10724

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aactactacc attcatccag ctagctgctg tgagccctgc tgccttcttg acacagcaac 180  
aattgttgct gttctacctg cacgctgcgc ctaacgttgg caccctctta caactgcaac 240  
aattgctgcc attcaaccaa cttgctttga caaaccagc agcgttctac caacaacca 300  
tcattgggtg tgcctctttt tagattgctt atgagttata gttcaataat aaagtttttt 360  
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<210> 10725

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-C8

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actgacgggtg aactcgacca aatcaatgac tgggcatctt atacgagcag ctggtggaat 180  
agaagcagtt gcttctatac aagctataag aactggttgg gtccatccaa atttgaattt 240  
agaaaatcct gaggacactg tggatgtggg catcttggtg ggatcacaga aggagagatg 300  
tgagggtgaac gtggcggttaa tccaactcat tcgccttcgg tgggcacaac tcatcaattc 360  
tgtttgccac ctttaaggaa ctgccatctt cctcatcgtc caaatagatt catatatctg 420  
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<210> 10726

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-D1

<400> 10726

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 ttgttgccct ggcgtgtgga caaatggaaa cgaggctgga aatgcagacg tggagtacat 180  
 tgattctgag aatctagtgg atctaccaga tgttgatgca gctctatgta ccttagttaa 240  
 aaggttggat tcaaaggact gggttatgac atgtgaagct ctcaacaatg ttcgtcagtt 300  
 ggcgatgtat cacaaggaaa gattgcagga gctgctggag cctctagtgc ctcttatcgt 360  
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<210> 10727  
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 <213> Zea mays  
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 caattacctt cgggtgcattt attggcacia aacattaagg cacatcaact actacaactc 240  
 ttgctagcaa accttgctgc ctacgctcat caacatcagt tacctttggg gcaatttgtg 300  
 gcacaaaaca tcagggtcca acatctacta caactcgtgc tagcaaacct tgctggctac 360  
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gggtgccgct ggtcctggcg ctcttcctcc tcttggccgg ttgcggcagc gaggcgcagc 120  
cgctgggtgcc ggcgctgttt acgttcgggtg actcgtcggt ggacgtcggg aacaacgact 180  
accttcacac catcatcaag gccaaacttc cgccatacgg cagggacttc gccaaaccag 240  
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<213> Zea mays

<223> unsure at all n locations  
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caatttcttc cattcaacca actggcagca ttgaactctc ctgcttattt acagcagcaa 180  
caactactac cattcagcca gctagctggt gtgagccctg ctaccttctt gacacaacca 240  
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<212> DNA  
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<223> Clone ID: LIB3059-001-Q1-K2-D2

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<210> 10731  
<211> 383



<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-001-Q1-K2-D3  
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 tcagctgccg gcgcctatgc aatgcagatg ccttgcctct gctcgaggct gcaaggcttg 180  
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<210> 10733  
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 <223> Clone ID: LIB3059-001-Q1-K2-D5  
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tccatcaatg atagcttcag tatgtgaaaa cccagctctt cagccctata ggctccaaca 240  
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<212> DNA  
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<223> Clone ID: LIB3059-001-Q1-K2-D6

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aacagtgctg ccagcagcag atgaggatga tggacgtgca gtccgtcgcg cagcagctgc 360  
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tgatg 425

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<211> 403  
<212> DNA  
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<223> Clone ID: LIB3059-001-Q1-K2-D7

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<223> Clone ID: LIB3059-001-Q1-K2-D8

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<210> 10737  
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<223> Clone ID: LIB3059-001-Q1-K2-E1

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<210> 10738  
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 <212> DNA  
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<223> Clone ID: LIB3059-001-Q1-K2-C2

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tgaaggggtgc ggtgacagga ctgcccgcgg ggaccatctg gggcaccgtc gtcgccacct 180  
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<210> 10739  
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 <212> DNA  
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<223> Clone ID: LIB3059-001-Q1-K2-A8

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 tgcagttgac cctgctatct tccatactcc tggccaatct ggggcgacat gcaacaaccc 240  
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 tttctagtgt ttagacttca gaacttgctg tcaatactta tgttcttgat acttatgaga 360  
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 <212> DNA  
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<223> Clone ID: LIB3059-001-Q1-K2-A9

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 cctcaatgct cacaagctcc tatagcttcc ctttttcccc cataccttcc atcaattata 180  
 gcttcagtat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgagca 240  
 agcaacatac ctttatcgcc cttgttgtgt caacaatcg cagccctatc tttggtgcag 300

tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc tgtgatcaac 360  
caagtagc 368

<210> 10741  
<211> 439  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-B1

<400> 10741

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gctcgttggt ctttctgcaa gtgctgctac ggcgaccatt ttcccgcaat gctcgcaagc 120  
tcctatagct tcccttcttc ccccgctacct ctcaccagcg gtgtcttcgg tatgtgaaaa 180  
cccaattctt caacctaca ggatccaaca ggcaatcaca gctggcatct tacctttatc 240  
acccttgctt ctccaacaat catcagccct attacatcag ttacctttgg tgcatttatt 300  
ggcacaaaac atcaaggcac aacaactaca acaacttggt ctagcaaacc ttgtgccta 360  
ctctcagcaa cagcagtttc ttccattcaa ccaactagct gcattgaacc tctgttctta 420  
tttgcaacaa caacaacta 439

<210> 10742  
<211> 428  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-001-Q1-K2-B10

<400> 10742

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cctgcgcccg gccgtcgggc acggacggct ccgacttttc ttaccgcatg gtcgtcgaat 120  
cccggtagca gagggtcgcc gagggcagat cccgcctcgc gcgcctcatc ctctgtcagg 180  
cgctgcacct agtggccgga ggcttgcttc tattgctgtc gttgtccaag ggggcccggg 240  
tgaacaagtt cgccgtgctg tccatggccg cgggattcct ggctatagtg gtgggggaat 300  
tagggcgaat gcggaccatg gcagtgtgc ttcggcttta cacaagcttg tcatcaattg 360

cggttgacatt ctctgtgacg tgcattatcc ggtcagaggt gttcttgagg ttatgaagca 420  
naacacag 428

<210> 10743  
<211> 337  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-B11

<400> 10743

acgcgtccgg ccaagcgtct cgcctcgtca gatcgaccgg gaagaaggga gcagaagcca 60  
accggctcgt ccggccgttg ccgatcgtcg ctatggccgc cgtggagggtg tgcgtgaagg 120  
ccgccgcggg gaaccccgac acgctcggcg attgcccgtt ctgcagaggg gtgctgctca 180  
cgctggagga gaagaaggte ccgtacgagg tgaagctcgt cgacctcggc aacaagcccg 240  
aatggtttct gaacattatc ccagatggta aggtgccttt gttcaacggt ggagatggca 300  
aatgcattgc tgattctgat gtaatcacc aagtcac 337

<210> 10744  
<211> 419  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-B12

<400> 10744

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gcgggtgagg ctgcctcct tcttcgccgg cgcggtgcc gccgccacgg gcgggggcta 120  
cttctctac aaggactaca agctcgccaa cgattctatg gccctcaagg tgaaatgtct 180  
ccaggactca actgacactc gctacgaagc ccttgaaaag cgactcgctg ctttgaagg 240  
tcagcaaagc actgaggctg caccgatgt ggatacgcca tcagattagt ctgttcgcta 300  
cgagactttg atttacgtct gtttcggtt accccagttg tcttctcctt tgaaagcaag 360  
tacctgacca acaacataat aatctaggat gcttctttgg actgcaagtc tgcaaatgt 419

<210> 10745  
<211> 315  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-B2

<400> 10745

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atccggaaga accttgtaga gaagtgtgtt gagctcttct ttgagattgc tgaacaacaag 120  
gaggactaca acaagtttta tgaggctttc tccaagaacc tcaagcttgg catccatgaa 180  
gactcgcaga acaggggcaa gattgctgag cttctgagat accactccac gaagagcggg 240  
gatgagctga ccagccttaa agattatgtg acgaggatga aggaggacag aacgacatct 300  
actatatcac tgggtg 315

<210> 10746

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-B3

<400> 10746

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ttcagaccat accgagtata ggactatgac ctgcgcagtt gaacaagagc gatatgtcca 120  
ggtcagctac tgaccatata catacggata ggttgagcag atacagaatc gaattggcac 180  
tactgatgat acattagcag gaacattact gcgcctaggt gacagggctg ctgtgttaca 240  
taatccgagc aactaatct ctcacgagac tagcaaagga tagaggacta aggttgacat 300  
aggcacgagc tcgatacatc ctctggga 328

<210> 10747

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-B4

<400> 10747

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ggatgccgat atcctctgac ctcagcaacc cgcggaactt cgtgacaaag atcagccgtt 120

acaacaaggt ggtgaacatc cccaacagca tgacgatatt ggacgaactc ctgcccattct 180  
cagtggagat ggcgaagagg aacctgcggg gcattctataa cttcaccaac cccggcgctcg 240  
tcagccacaa cgagatccta gagatgtaca agcagtacat cgaccctagc ttcaagtgga 300  
caaacttcac cctcgaggag caggcgaagg tcattcggtgc tccg 344

<210> 10748  
<211> 373  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-B5

<400> 10748

gagcattcag aaacacacca agcgaagcgc actagcaaca acctaacaac aatggctacc 60  
aagatattat ccctccttgc gcttcttgcg ctttttgcga ggcgaacaaa tgcgtccatt 120  
attccacaat gctcacttgc tcctagtcc attattccac agttcctccc accagttact 180  
tcaatggcct tcgaacaccc agctgtgcaa gcctataggg tacaacaagc gattgcggcg 240  
agcgtcttac aacaaccaat tgcccaattg caacaacaat ccttggcaca tctaacaata 300  
caaaccatcg caacgcaaca agcacaacag ttactaccag cactgagccc actagccatg 360  
gtgaacccct gtc 373

<210> 10749  
<211> 365  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-B6

<400> 10749

cagaccatta gctctatcta ctccagagcg cataacaacc cgatcgacac catgaggggg 60  
ttgctcgatg ccctcgctct cctggctctc gctgcgagcg ccacctacac gcatacaagc 120  
ggcagctgcg gctgccagcc accgacgccg gttcatctac cggcgtcggt gcatttgcca 180  
ccttcgggtc acctgccacc tactgtgcat ctcccaccgc cagtccacct gacggcgccg 240  
ggccacctgc caccgccggt ccatgtgccg ccgccggttc atctgccgcc tgcacatgc 300  
cactacccta ctcaaccgca ccggcctcag cctgatccac agccacaccc atgctcgtgc 360



caaca

365

<210> 10750  
<211> 398  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-B7

<400> 10750

caaattgcac caagaaatcc atcgagaggc cgtcgacagg ggaattaatg gcgtcgtggt 60  
ctagcagcag ccaccgccgc ctcatcctcg cagccgccgt cctgctctcc gtgctcgcgg 120  
ctgccagcgc cagcgccggg acctcctgcg tgccgggggtg ggccatcccg cacaaccgcg 180  
tcccgagctg ccgctggtac gtgaccagcc ggacctgagg catcgggccg cgcctcccg 240  
ggccggagct gaagaggaga tgctgccggg agctggcgga catcccgccg tactgccgg 300  
gcacggcgct gagcatcctc atggacggcg cgatcccgcc gggcccgac gcgcagctgg 360  
agggccgtct agaggacctg ccgggctgcc cgcgggag 398

<210> 10751  
<211> 366  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-B8

<400> 10751

cggacgcgtg ggcgcaaatt gcaccaagaa atccatcgag aggccgtcga caggggaagt 60  
aatggcgctg tcgtctagca gcagccaccg ccgcctcatc ctgcagccg ccgtcctgct 120  
ctccgtgctc gcggctgccg gcgccagcgc cgggacctcc tgcgtgccgg ggtgggccat 180  
cccgcacaac ccgctcccga gctgccgctg gtacgtgacc agccggacct gcggcatcgg 240  
gccgcgcctc ccgtggccgg agctgaagag gagatgctgc cgggagctgg cggacatccc 300  
ggcgtactgc cgggtgcagg cgctgagcat cctcatggac ggcgcgatcc cggcggggcc 360  
ggacgc 366

<210> 10752  
<211> 417  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-C1

<400> 10752

gcaacatata aagcacaata gtgtaccaac aatggcagcc aaaatatattt gcctactgat 60  
gctcgggtgtt ctttctgcaa gtgctgctac ggcgaccatt ttgccgcaat gctcgcaagc 120  
tcctatagct tcccttctta ccccgtagct ctcaccagcg gtgtcttcgg tatgcgaaaa 180  
cccaattctt caaccctaca ggatccaaca ggcaatcaca gctggcatct tacctgtatc 240  
acccttggtc ctacaacaat catcagacct attacatcag ttacctttgg tgcatttatt 300  
ggcacataac atcagggcac aacaactacg acaacttggt ctagcaaacc ttgctgacta 360  
ctcttagcaa cagcaagtgc ttacattcaa ccaactagct gcattgaact ctgcttc 417.

<210> 10753

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-C10

<400> 10753

cccccactc gtccaaaaaa acatatataa aaataataaa taatatttat tataaattat 60  
aaaaaaaaa aaaaaaaaaa gaaaaatttg aaaaatttaa aaaataaaat aaaataataa 120  
tataaataaa aataaaataa tataatataa ttatatataa aaaaataaaa aaaaaaaaaa 180  
tccccccctc ttataaaatc ccaacataat taccctctc attcctattt tataattttt 240  
ttaaatatcc cccaaaataa aattaac 267

<210> 10754

<211> 252

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-001-Q1-K2-C11

<400> 10754

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ttgggttttg ctgtagcgta tcttaacttg cttcgtggaa catgaatttc aagtgttttg 120

agggtattac agtgccttat gtgaacttgc ctatcttgtg ctgaacatcg gaatgtatcc 180  
 tccgagtatg tttaatcgca ttaattntaa aaaaaaaaaa nnaataataa atataaaaaa 240  
 aaatattata tt 252

<210> 10755  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-001-Q1-K2-C12  
 <400> 10755

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 cttgaacatc caagatcagg agatgaagta gggatatctat ttattgatgg ccaactacaa 120  
 gagatcaact ggtttaagga gcgttatggg gcttggttct tgggagatta tgtttgtgaa 180  
 gatggtggcc tttattattg caccctgtt gatcccatct tcattttcct accaactttt 240  
 gaagctgcac gtatgtcgaa cgataaggat ccaggaaaat tcagacaatt ggatgaaata 300  
 ttgtatgttg agggatatcc tggttatcag cagctaata gaatgtagctaa ccaccatatg 360  
 gaattggttt gtgaagtaaa agaagtatct aacatgaagt tctttaggct ggacaactcc 420  
 aaggctctat cttggttgtg ctgc 444

<210> 10756  
 <211> 410  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-001-Q1-K2-A7  
 <400> 10756

caagaaccca tggccaaatg ttgatgctca cagtggagtt ttgctgaacc actttggagt 60  
 atctgaagca cggatttaca ctgtcttgtt cgggtgtttca agaagcatgg ggataggatc 120  
 tcagctcatc tgggaccgtg cccttggcct gccacttgag aggccgaaga gtgttaccat 180  
 ggagtggctg gagaactact gcaagaacaa ggctgcttga agcttttcac aaatgctgct 240  
 ttttcccaac cttggctgtt aataatttaa acgcgagtta tagaaatagt cattttccct 300

ttggccgttg aataacgcaa gagcaatatg ctcaggcgga agaattttgt atcttccgta 360  
acttggtgaa catccagata cttgatctgc ggcaacaatg ggcagaagag 410

<210> 10757  
<211> 255  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-F2

<400> 10757

ggcctaaaaca gcctaagaaa agagattcgc atttggtcat gtcgtgaaca cttgggggtga 60  
atgcacaact gctctgaata acaaaaagtt gatcttggct ccatgggtgtg atgaggagga 120  
aattgagaaa gatgtaaaaa ctcggacaaa aggggaactt ggagctgcta atacattgtg 180  
tactccattt gagcagccag aacttccaga atgtaccctg tgcattgcat atggaaagcc 240  
agcgaagaag tggtc 255

<210> 10758  
<211> 146  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-001-Q1-K1-F3

<400> 10758

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agggnatgta natcttaaac gtgccttgaa cttactaact aactggctaa ctagctcgaa 120  
ccgcatagca aatctaaagc tgcaat 146

<210> 10759  
<211> 373  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-F4

<400> 10759

aggcaggggtt ctagtgcgag tatggtcggg gttgatccta atttggctga tgaaggtgtt 60  
agtaaatggt ctgattctgg catgtccaaa ggaagctctc actccttact aaagcgtctt 120

acaaaccaac atactactac atctcagtct gttccacag atctgtcagc aatcaggctg 180  
 aagaaagcag gacttgcgtc ctctgatggt atgtttttgc aaactgtggt taatgttact 240  
 ttgaagtttt atgtaaaagt cagctgaatt tgcttcactt aaaacaaagc tgtcaattgc 300  
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 ggtagtttga acg 373

<210> 10760  
 <211> 199  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-F7

<400> 10760  
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 tttcgcaagg tctctgcct ctgcagtcga cgcgctccgg ggctgggtggg atgacgtcaa 120  
 ctgagtcgcc ccattgccag gacgcggcct tcttatccct ctccgacgtc tactcatttg 180  
 actcctccgt agcactgat 199

<210> 10761  
 <211> 236  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-G10

<400> 10761  
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 aaactcaatc tctcagaacc cacataaaag atcattgctg agtacatatg gggtggtgga 120  
 tctggtatgg acctcagaag caaagccagg actctacctg ggccattgag tgaccctgca 180  
 aaactttcga agtggaaacta tgatgggtct agctatztat caagctctaa tggatg 236

<210> 10762  
 <211> 393  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-001-Q1-K1-G11

<400> 10762

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gatgggtgcat gaaattggtg gagcatttgg tggagaaaaa gcaactggtg gtggacgaga 120  
agcagggagt gattcctgga agcagtacat gaggagggcg acttgtacaa tcaactatgg 180  
gagcgagcta cctctagccc agggaatcaa ttttggttaa tctgcagaa atgttgcgcg 240  
tggatctcaa agttttctgc agacgtggat gccgtatgga aagaactgat gcaaccgcat 300  
atgagatctt agcaaaactg agcagcattt attggcgctca gttgtgaaac ttaaactgca 360  
ggaacatctt gtacataaat aaaataagat gtt 393

<210> 10763

<211> 126

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-G6

<400> 10763

caacattgct ttaacactag taccagctct tactcagctg gctgaagcaa acttttaatg 60  
gctacttgca cctactatct ccattcaacc aactgactgt gtccaactct gctgcgtacc 120  
tacaac 126

<210> 10764

<211> 54

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-G8

<400> 10764

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<210> 10765

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-H10

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tcaagtaagg attctgatcc ttttgatgga ctctatgttg gtgcatttgg cccttatggc 120

atggaaatag tgcatttgag gctaaaattt tgacattgga atgaattgga caatgaaaac 180

aaaacttctt atgtgggatt ctttgaata 209

<210> 10766

<211> 196

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-001-Q1-K1-H4

<400> 10766

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cggtaacctg taaatgacct ctacatcgcc agcaaagcaa cgcccggcgg acaatgaccg 120

ctatgttagg aactgccgca acgggaggtc gccaaacgag actagatggg ggatccatga 180

ctacacgacg aaaaga 196

<210> 10767

<211> 175

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-H6

<400> 10767

cccactcgtc cggttggttt tggacttatc atcacgaaga acgctacact cactagttag 60

attgaagctg atgcatgccc aatcagggca atgaagttct ctgtctcccc tgttgtgcgt 120

gttgctgttc attgcaatgt tgcttacgac cttcccaagc tagtacaatg ttgga 175

<210> 10768

<211> 171

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-H8

<400> 10768

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 taaagcgaca gagaccatcc ccaaggatga atttcgtgga tgggttagga tataagagct 120  
 ccagaaaccc acccaacaac tgccgattgc aagatatagc taaagccaac c 171

<210> 10769  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-A1

<400> 10769

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 tactataagg atgctttttac tcaactcaag cttgctgac ggcgtaagta tgaacacata 180  
 tctccaactc ctgaggagtg ggacaaggcc aaaatgttgt ttcatgcctt gaaaaaattt 240  
 tatgatctga ctgagcttct gtccggtact ttatatccaa ctggcaactt ggtctacaaa 300  
 agctttttgtg agattagaag tttgcttggg gactggtcta ctagtgaaga tatcaatatt 360  
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 gctcttgc 428

<210> 10770  
 <211> 235  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-F11

<400> 10770

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 ccacacagac ccttgacaag gatcaaggca tttcagttct cactactgca atcaaggcat 180  
 ggacagcata gattgaaaag tgctaagtga aagtatgtat gaatgaacaa ccaag 235

<210> 10771  
 <211> 429



<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-001-Q1-K2-A11  
  
 <400> 10771  
  
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 atctggagct gaacgcggag tcccacttcc tgagcttcgt gcagcggttc ggcaagtcct 180  
 acaaggacgc cgacgagcac gcgtaccggc tgtccgtttt caaggccaac ctgcgccgcg 240  
 cgcgccggca ccagctgctg gacccgtcgg cggagcacgg cgtcactaag ttctccgacc 300  
 tcacgccggc agagttccgc cggacctacc tcggcctccg caagtcccgg cgcgctctcc 360  
 tcagagaact cggggagtcg gcgcacgagg cgcccgctgt tcccaccgat ggtctncccg 420  
 acgatttcg 429

<210> 10772  
 <211> 451  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-001-Q1-K2-A12  
  
 <400> 10772  
  
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 tacaacttgg ttatcacacc tataaacttg aaccttttca atgttaacct tgcaatggct 180  
 ttacaggcc tgtatcatct ttcactgaag atcatgcaac attacttata ccatgataaa 240  
 gatgctgctt cacaactgta atcatatata atgacaacaa tcaaagaata actgattgta 300  
 aatcctgcat cctatgagtc tactcttgat tttttttttc tgtgcaagca aacaataact 360  
 tatctttcat gtttgttttc ctgttattct gaaatcttga gcattctaata tttaaaatct 420  
 ttccccaaaa ataaaaacca attaaatcat t 451

<210> 10773  
 <211> 421  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-A3

<400> 10773

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaag gggggccctt 180

tttaaagttt caaagtttaa ttacccttaa tttcaaatta aaagttttttt aataggtcca 240

cttaaataaa attcattggc cacgttttta aaaattttta attggaaaaa ccttgggtta 300

accaaattaa atccttttga aaaaaatccc cttttcccaa attgggttaa taccaaaaag 360

gccaaaaaaa atggcctttt caaaaatttg caaatcttta atggcaaatg gaacccccct 420

t 421

<210> 10774

<211> 434

<212> DNA

<213> Zea mays

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<400> 10774

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gaggcgaaaa ggtcagagtt cagtcatgtc atgcttgatt tgagttctgt gccagatcaa 180

agcaagtagt agtacgtgag aagttaacca tgaacagaca ccctttttct ctttgtgtat 240

cacagatttt gaaacttget gagagggaaa aacaaattta tggggaaaaa atgtgacact 300

gaaagccatt tgcttccagc agcttaagaa ttgttgcggt agatgcaact gaagagggtc 360

ttcaagtaag taaatcaact actacaatgg ctactaaaa atggctcgaca ggacagtttt 420

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-A1

<400> 10775

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atactataag gatgctttta ctcttctcaa gcttgctgat ctgcgtatgt atgaacacat 180  
atctacaact cctgatgagt ttgacaatgc ctaaattttg ttttattcct agaaaataag 240  
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<210> 10776

<211> 177

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-001-Q1-K1-A10

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accatcaggg cacagcaagt acattataat gaagctaagt ctgctcaatc aaggggcgtc 120  
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<210> 10777

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-A11

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ccccggagga gatgacaacg agctggagcg gaacgcg 157

<210> 10778

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-A3

<400> 10778

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagcaat aaaaaaaaaa aaaacaaaaa 180

aaaaataaaa aacaaaaaaa aactaaaaaa caaaaaaaaa caaaacaaac aaaaaaaaaac 240

aaaaacaaca aaaataacaa aaaaaaaaaa aaataaaaaa taaaaacaaa acaaaaaata 300

aaaacaaaac aacacaaaca aaaaaaaaaa acaaaacaca caacaaaaaa aaaacaaaaa 360

aaaacaaaca caaaagacaa caac 384

<210> 10779

<211> 185

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-A5

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ttctgaactg agaccggacc ttctatactc tgcggagaca tgagtgcctg gaaaactata 120

gaggcgaaaa ggtcacagta cattcatgta atgctcaatt tgagtactgt gccatatcaa 180

agcaa 185

<210> 10780

<211> 120

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-A6

<400> 10780

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aattaaaaag gacaaaaacc caacccaaaa acagaaaaca aacaaggccc cccccctaa 120

<210> 10781

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-A7

<400> 10781

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agcgactttg gactatttga agcgacggta ttacactgtc ttgttcggtg tttcaagaag 120  
catggggata ggatctcagc tcactctggga ccgtgccctt ggctgccac ttgagaggcc 180  
gaatagtgt accatggagt ggctggagaa ctacttcaag aacaa 225

<210> 10782

<211> 51

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-001-Q1-K1-B10

<400> 10782

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<210> 10783

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-B12

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acttctccaa ctacattttt cacgtacacc tacctttacc acca 164

<210> 10784

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-B5

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caatatatta tccctccttg ctcttcttgc tctttttgcg agcgcaacaa atgcgtccat 120  
tattccacaa tgctcacttg ctcttagttc cattattcca cagttcctcc caccagttac 180  
ttcaatggcc ttcgaacacc cagctgtgca agcctatagg ctacaacaag cgattgcggc 240  
gagcgtctta caacaaccaa ttgcccatt gcaacaacaa tccttggcac atctaacaat 300  
acaaaccatc gcaacgcaac agcaacaaca gttcctacca gactgagcc acctatccat 360  
ggtgaaccc 369

<210> 10785  
<211> 283  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-B7

<400> 10785  
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gctgccagcg ccagctccgg gacctctgc gtgccgggt gggccatccc gcacaaccgc 180  
ctcccagct gccgctggta cgtgaccagc cggacctgct gcatctggcc gcgcctccca 240  
tggccggagc tgaagaggag atgctgccgg gagctggctg aca 283

<210> 10786  
<211> 195  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-B8

<400> 10786  
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aatggaaagg gcctcgagca gcaccaccg ccgcctcatc ctgcagccg ccgtcctgct 120  
ctccgtgctc gcggctgcca gcgccagcg caggacctcc tgcgtgccag ggtgggcat 180  
cccgcacaaac ccgt 195

<210> 10787  
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<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-C11

<400> 10787

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gaaggaataa caatgccaaa agtaaaactta accaaataat aacaaaacaa aaaaaaagta 180

taaaaaaaaa ttaaataaat aatgtaagaa aacttaaaaa aaaaagaaat aaaaaataat 240

ataaatataa ataataatga taaatataat aaaaaaaaaag aaaatataaa taaaaaata 300

aaataaaaca ataataaaaa taattaaaaa ataatatata taaacataaa aataaataaa 360

aaaataaaac aaaaataaaa aatataataa tatatataaa ataataataa tataaaaaaa 420

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<210> 10788

<211> 63

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-C6

<400> 10788

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aac 63

<210> 10789

<211> 55

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-D1

<400> 10789

ccaacaaaga acaaaacgcg ccaccaagaa gcccaagcac aaaaacaaaa ggaaa 55

<210> 10790

<211> 51

<212> DNA

<213> Zea mays

<223> unsure at all n locations  
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<400> 10790

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<210> 10791  
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<212> DNA  
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<223> Clone ID: LIB3059-001-Q1-K1-D11

<400> 10791

gtgcgttgcg tcgtgagtgc ccggaatcaa caccgacagt ctgagactga ga 52

<210> 10792  
<211> 346  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-D6

<400> 10792

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tcgttctcgt cgtgtgcctg gctctgtcag ctgccagcgc ctctgcaatg cagatgccct 120

gcccctgcgc ggggctgcag ggcttgtacg gcgctggcgc cggcctgacg acgatgatgg 180

gcgccggcgg gctgtacccc tacgcggagt acctgaggca gccgcagtgc agcccgctgg 240

cggcggcgcc ctactacgcc tgggtgtggc agacgagcgc catgtaccat ccgctccggc 300

tacagtgtcg ccagcagcag atgatgatga tggacgtgca atcctg 346

<210> 10793  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-D7

<400> 10793

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cttaaaagga ccccaacctt aaccaaccgg cgcataccaa tgccatatca gcctacacta 120



cgacgaccaa cccacaaaac aaaagaaccc accacagaaa 160

<210> 10794

<211> 113

<212> DNA

<213> Zea mays

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<400> 10794

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atttcaacga tggcggctgt gcttaacatc aggaagacgc cgcaggtggt ggc 113

<210> 10795

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-G9

<400> 10795

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caccatgtgt cgagctcggg ccatgctcca gtctgagctc ggagttctgc gcacccatct 120

cccccggtc cttgcagctc ggatccctgc acgtggagtc ttatccatag ccaagatcgt 180

tcttgctcgc tgtcgatgcc taatacgacg tcagctatcg ctacagctat ggcgctatat 240

cgatcaggag tccgtatact atgcgc 266

<210> 10796

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-H10

<400> 10796

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ccgccccgct ccggtccaga ttgcgcgcac ccacccatgg cgctcgccgc ttcccaccac 120

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cgcgccgcgc gccctctgtc ccgccccggc cggagaatgt gttgccaatc tatcaactca 240

gctaatgcgt tgggagcttc ttcaacgaca tctgatgagg cagtcccagt cccagttgta 300  
cagatagatc aggactcaga cctgatgcg accattgtgc agctaagttt tggagatcga 360  
ttggaggcac tacttgacac gatgaaagca ctc 393

<210> 10797  
<211> 382  
<212> DNA  
<213> Zea mays  
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<400> 10797

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atccggcacc ggtcccaagc cgataaaggg ccagaaggtc accgttcact gcaccggcta 180  
cggaaggat cgtgatctgt tcaagaaatt ttggagcacc aaggaccctg ggcagcagcc 240  
attcagtttc agcattggtc aaggttcagt gatcaaagga tgggacgagg gagttatgac 300  
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cgggttccca gactggggaa tt 382

<210> 10798  
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<212> DNA  
<213> Zea mays  
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<400> 10798

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cccgttgctg tctgcaggat cgccatcgcc gtgctcatag tttctaccct gtcacacctat 180  
gcggaggcga ggtactactg ctacgccccg tgcaaggact gccgaactg cagcagctgg 240  
tgcaagggga aagggtagcc caagggcggg cggtgccacc cgaaggacgg cggcggcgac 300  
atcgtgttct gctgctgcga cagggcagac gtcataagc tgctagtttc agcagatgcg 360  
aatgcgattc tctgatggac tggcaaacaa ataaacgggg ctggacgcat tgaga 415

<210> 10799  
 <211> 450  
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 <213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-H4

<400> 10799

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agctttcaga accacaccta gogaagcgca ctagcaacga cctaacaaca atggctacca 120
agatattatc cctctttgcy cttcttgccc tttttgtgag cgcaacaaat gcgttcatta 180
ttccacaatg ctcaattgct cctagtcca ttattccaca gttcctccct ccagttactt 240
caatgggctt cgaacaccca gctgtgcaag cctacaggct acaacaagcy cttgcggcga 300
gcgtcttaca acaaccaatt gcccaattac aacaacaatc cttggcacat ctaaccatac 360
ataccatcgc aacgcaacag caacaacaat ttctaccagc actgagccaa ctagctgtgg 420
tgaaccctgt cgcctacttg caacagcagt 450
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<210> 10800  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-H5

<400> 10800

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gttggcaggg tggttgacgt ctcggcgacg gatatgtgat ctgatccaca tggcatatcc 180
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<212> DNA  
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 <223> Clone ID: LIB3059-060-Q1-K1-H6  
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 <223> Clone ID: LIB3059-060-Q1-K1-H7  
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 tagaacattg tatatacctg gaataattgg agcttgagtc tcgaaccagg agttatccgc 300  
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<210> 10803  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-060-Q1-K1-H8  
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caagtgcaga ttgttggatga tgaccttctc gtcaccaacc ccactagggt tgctaaggct 120  
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gagagtattg aggctgtgaa gatgtcaaag cgtgcgggct ggggtgtgat gactagtcac 240  
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cagattaaga ctggagcacc ctgcagatca gagcgtcttg ccaaatacaa ccagcttctt 360  
aggattgaag aagagcttgg cgctattgct gtctacgcag gtgccaaatt ccgtgc 416

<210> 10804  
<211> 410  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-H9

<400> 10804

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catagtgtaa aggaagtttt ggacacacca ggtgtgatgg ctctgataaa agatacaact 180  
gcagcacagg aggttcgagc tctgcaggat ttcttcaata tgcttactaa tgagtcagct 240  
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ctattaataa ctgatactat gtttcggaac gctgacattg ctactaggca aacgtacgtg 360  
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<210> 10805  
<211> 403  
<212> DNA  
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<223> Clone ID: LIB3059-060-Q1-K1-G8

<400> 10805

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catacagcta ctatgatctg cctccttctc tcaagccatg tctgctgcaa ctaagcatat 180  
atccagaaga ctacctcatt aatgcaaaaag ttgcaatatg gatgtggata ggtgaaggtc 240

tagtccatct tgagaaacaa gatgttagcc tatttgaggt tggagaaaga tacttcaagg 300  
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<210> 10806  
<211> 252  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-060-Q1-K1-F10  
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cttgatcatgc tacatgtggc tggccctggc ataagttgcg aagcttccag tgtggtcact 180  
gtcatagaca cgacgtccac ggacgatgcc cttggcctgc atatgctggg gtacgaacga 240  
tggaatgacc tg 252

<210> 10807  
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<213> Zea mays  
<223> Clone ID: LIB3059-060-Q1-K1-F11  
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aattcgtgcc ccgaggtacc aataagcaac gatgagagaa gcattccacc ttgcatttac 180  
actccccctt taggcttatt gagcccaatc cacatgtggt gaggtggatt gaggggtgtt 240  
aacgaggctt tagggctttt gaggtggatt ggaggtgttt aatgaggctt tagggtttta 300  
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<210> 10808  
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<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-060-Q1-K1-F2  
  
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 atttattggc aaaaacatc agggcacaac aactacaaca acttgtgcta gcaaaccctg 180  
 ctgcctactc tcagcaacag cagtttcttc cattcaacca actaggttca ttgaactctg 240  
 cttcttattt gcaacaacaa caactacatc tcagccagct acctgctgcc tacccccagc 300  
 aatttcttcc attcaaccaa ctagcagcat tgaactctcc tgcttattta cagcagcaac 360  
 aactactacc attcagccag ctagctggtg tgagccctgc taccttcttg acacaacc 418

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 <223> Clone ID: LIB3059-060-Q1-K1-F3  
  
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 cccgaggtgc tgttccaacc atcccttggt ggcattgaat cgcctggcgt acatgaggcc 360  
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 ggtggtgttt ttttagtgaa cattcatttc ccgccagatt accccttcaa acctccaaag 300  
 gtttctttca agacaaaggc ctcccatcct aatatcaaca gcaatggaag tatatgcctt 360  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-060-Q1-K1-F5  
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 ttaggcacat gtgcactctg aattccttag gctatgctgc gaggtacagc tactagactg 180  
 gacatacgct ctagttatgg acctgtaact gagctcagca caatcagagc gttagcagct 240  
 gaatgaaact gaacaggccg tcagcgatct gtccttaaag ctgatgctca tataatgatg 300  
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<210> 10812  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-060-Q1-K1-F6  
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ggcttttctgt attcagggga ttgagatgct gtcattggga tcatttaaaa ctggagccat 240  
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cagtgtggct aaatctttcg atgctccaat aaagcttctg tttccaactg cagacgctga 360  
acggccattc tccatgcttg gccttgggtga cattgtaata cctggtatat tcgtc 415

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<211> 324  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-F8

<400> 10813

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accctggcat cgaagaacgc cctatccttc gcgctcggcg gcgcggcccg gccgtcggcg 180  
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tacgtcgcca actacaacaa ggct 324

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<211> 419  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-F9

<400> 10814

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aagatgactt catcaagtga cctgtttttt gatgtgttca atgaagtgag tggatgatctc 180  
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cctagagaag gcaagagatg aggatacact gcacaatcta agagagaagg cgatcaatga 300  
ggtactgaga ctccaattta ctggctcaga agttatcaaa gcatctgggtg tgtttgtag 360  
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<210> 10815  
<211> 355  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-G2

<400> 10815

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tgtgctgtta gatttatata tactcacacc aaggagtgtg tgtttacact ttacagccgt 180  
tgttggtgcaa aagttggacc tctgttgtgc agaagataag tctgaagcct ttttcattgt 240  
tcttttttga cataatggag aagctggggg agtgcttgtc tctggaggac ctccaattca 300  
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<210> 10816  
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<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-G4

<400> 10816

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gaacatcata aggaataact gttgctt 87

<210> 10817  
<211> 419  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-G5

<400> 10817

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ggacctgccg ggctgcccgc gggaggtgca gaggggattc gccgccaccc tcgtcacgga 180  
ggccgagtgc aacctggcca ccatcagcgg cgtcgccgaa tgcccctgga ttctcggcgg 240

cggaacgatg ccctccaagt aactgcgaag agcatagtg atgaggaatg agcttgtagc 300  
tagctcatat gtctgaataa taagcacagc agaagatga atgcatttct cggatcgttc 360  
atccggaaca ataattaaag gggatccgga ttgctcttg tgatataatt aacgattcc 419

<210> 10818  
<211> 237  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-F1

<400> 10818

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attgctcaat tctcctctat tcatgctagc tctagcatct tacttatcca tataacctata 180  
tttaaactta ctctatgaac aatgcagttt acagtgcaaa acattgggtt gagtggc 237

<210> 10819  
<211> 414  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-G7

<400> 10819

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gcgggttatgg cggcggtggc ggctacggcg gtcggcgcgga ggggtggtggc ggcggctacg 180  
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<210> 10820  
<211> 421  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-060-Q1-K1-D5

<400> 10820

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cagaagggca ttgacctcc atctctggat ctcttgcta gagcggggat tattgtcttt 180
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gttcttggag aagaaaagta cacatttgtg gagaatgtga aaaatcctcg ctcttgtact 360
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<210> 10821  
<211> 416  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-D6

<400> 10821

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ctactctcag caacaacaac ttcttccatt taaccaattg gccgcactga accccgctgc 180
ttatttgcag cagcaaatac tactaccatt tagccagcta gctgcagcaa gccgtgctta 240
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cctcttacia ctacaacaat tgttgccctt tgtccaactt gctttgacaa acccagcagc 360
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<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-D7

<400> 10822

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tgcaacaaca attgctgcaa cagattgtac cagctctgac tcagctagct gtggcaaacc 180

ctgctgccta cttgcaacag ctgcttccat tcaaccaact gactgtgtcg aactctgctg 240

cgtacctaca acagcgacaa cagttactta atccactagc agtgcctaac ccattgggtca 300

ctgccttcct acagcagcaa caattgctac catacagcca gttctctttg atgaaccctg 360

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<210> 10823

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-D8

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ggtcatctgc cccagcctc gccgcgccac ccggattccc ctaccgctg tggaaccct 180

gaacaaagcc agccccaaga tgaacggtgc atttccgccg tacagatcgg actccacttg 240

cgatatactt gatcttatcc tcagtaagaa tgactcggat ggagattcga gcagccaggt 300

gggcttctta tgcggctcac ctccgatacg cgctgacaac cctgttatcc atgatccaca 360

gtttggtaaa agactgccat ccttttctcc tctaggaggg agctcctatg gcaaaa 416

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<211> 226

<212> DNA

<213> Zea mays

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atatctcaat actcttatat acatcctcac tctagcatct aaattatcca tattcctata 180  
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<210> 10825  
 <211> 424  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-E11

<400> 10825

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 acaagctcct atagcttccc ttcttcccc gtacctctca ccagcgggtgt cttcggtatg 180  
 tgaaaaccca attcttcaac cctataggat ccaacaggca atcgcagctg gcactctacc 240  
 tttatcaccc ttgttctctc aacaatcatc agccctatta cagcagttac ctttggtgca 300  
 tttattggca caaaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360  
 tgectactct cagcaacaac agtttcttcc attcaaccaa ctagctgcat tgaactctgc 420  
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<210> 10826  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-060-Q1-K1-E12

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 ggtgtggacc ggatcagcgc aaccagtacg gcttcgtgat cgtgacgttg aagaatgtag 360  
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cctgcatg 428

<210> 10827  
<211> 138  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-E2

<400> 10827

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ggtattatgt tttattgt 138

<210> 10828  
<211> 421  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-E3

<400> 10828

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ctcgccttgg atcgatcggt cacaagaaga ctgcatcagt cttgtgtctg accactgtca 180  
agaacgagga caagcttgag ttcagcaaga tcttgagggc tattaaggcg aacttcaatg 240  
acaagtttga tgaagtcagg aagaagtggg gaggtggcat catgggctcc aagtcgcagg 300  
ccaagaccaa ggccagggaa aagttgctgg ccaaggaggc cgcccagcgg atgacgtaga 360  
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c 421

<210> 10829  
<211> 420  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-E4

<400> 10829

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ccagtgtatc gtgaagaacg ctctgaagaa tgagccagag gaagaactgt atgtgccaga 300  
taccgtggac gtggtgggtg gcaaccgggc ccagagatca tccgggtgct gttaaggcac 360  
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<210> 10830  
<211> 414  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-060-Q1-K1-E6  
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ggatgatgga cgtgcagtcc gtcgcgcagc agctgcagat gatgatgcag cttg 414

<210> 10831  
<211> 417  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-060-Q1-K1-E7  
<400> 10831

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cgtcgggtcga ggaagaggac gacctctatg gccgcctcaa gtcgctccag cgccacatgg 180



agttcgtcga gatccaggag gagtacgtta aagacgaaca gaagaacctc aagcgcgaaac 240  
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<210> 10832

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-E8

<400> 10832

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 gagagaaaag aaagtgcctt ggtgtggcac catcaggatg ctgaccagg ctttggatcc 180  
 tcacaggcaa aggagctgct tgatcacctg gaaagtgtac tagcaaatga accagtctct 240  
 gtcaagagtg gccagttcat cgttgaagtc aagccacagg gagtaagcaa gggaatagtt 300  
 gccgagagga tacttgcac agtgaaggag aggggaaagc aggctgattt cgtattgtgc 360  
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<210> 10833

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-E9

<400> 10833

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 ttccccgacc tccaccttgc atgccttgac cgctgctacc tcatctatca cttgggtgtca 240  
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<210> 10834  
<211> 462  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-D4

<400> 10834

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ttcacttgtc gactgaaatt tcgttccac tgtcaatgaa caatcctgaa gaaaggtag 360  
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<210> 10835  
<211> 417  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-060-Q1-K1-C11

<400> 10835

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tgattgatta cccgtatgtt gaatgtacat cagcagcaat tcaggccctg acatcattca 360  
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<210> 10836  
<211> 420  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 10836

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tatacaaaga agcgctggtg gttgtcaggt gcttctcttt tctgcgacct tcaatgatag 180  
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aatagagggtt ataagggaca agatatttga atttggacag aaagttggcc aggttatcat 360  
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<210> 10837  
<211> 421  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-060-Q1-K1-C3

<400> 10837

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cagatcggat cgtccacca cctgctggtc tgatggcgcc gnccecttct agatctcgct 360  
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 gacgagtgcg ccgaggtcga ggaggatggc gacgaggagg aagggggcag cccagggag 180  
 tggctggagt cgggtgtcgg tgacggcttc ccgctgtgtg ggttcgattc actgtatgat 240  
 aagtactgcg agagtatgct ggtgtttcat aagatgatcg cacagctcat gaaggatcca 300  
 gagtcactga acatgtccaa aaagtctcca agatcagcat caaaattggt gtctaccctg 360  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-C9

<400> 10840

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gccatgggtg gactctacca gtaccagctg cccagctacc gcaccaaccc ctgtggcgtc 180  
tccgctgcc a ttccgcccta ctactgattc atgatatttg ggaaatctcc tctatccatc 240  
tctctctatc tatatatgta ataatgcagt aagacgacac acattatcat gtgtgggtatg 300  
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<210> 10841

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-D1

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tgtaatactt caaccgaagg ggcgtttctg caatctttct actaagaaga aatctttctca 120  
ggcgttatgt ctctatatta gcaaagctc atgatagtgc catgaaacag ctgaatggaa 180  
ctcataaagc tcatgtgcac tccatacata tggcttgaaa tacttttctca atat 234

<210> 10842

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-D10

<400> 10842

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gttgccattc tgtcctcgct gtctccatgc tacgaagccg gcggctgcat cgggaaaccc 180  
aagaagtcac cgtcgccgcc gagaaggcca tacctctcgt cctattccga ggaccaccag 240  
aactgccgct tgatctgtag ctcaagggt ttcaaggacg gtggctgggtg tgacgaaagc 300

gtcgagcaca aagtgtgctg ctgctcccat tagaaatata atatcgtatg ttatgttgat 360  
gcatatatat gcatcatcca tctacctgtg tggtgcaaaa ttctgaataa aatctacctg 420  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-060-Q1-K1-D11  
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gcgtgttgag actggtatca tcaagcctgg tatggttggt acctttgggt ctagtggcct 180  
tactactgag gtgaagtctg ttgaaatgca ccatgaggct ctccaggagg cccttcctgg 240  
tgacaatggt ggcttcaatg ttaagaatgt tgctgtgaag gatctgaagc gtgggtatgt 300  
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<210> 10844  
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<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-060-Q1-K1-D12  
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gagttaaagg ctcttttggc tgattcggaa cgaagtaagc ttttgagaag actcagtga 120  
gcaaatcaat ataaccgatt cctcaagaga cagttgcaaa taaaggatga tgcagtcgta 180  
aaattcaaag gtgaacttgc tgttttggaa ctagaactgc aggctctggt tggcctagct 240  
gaagagggtg ctaattttga tggtccgtta ggtctanga agataaacgg aaaatatatt 300  
caatctcatc ttctcttcag attagaagct gtncatgata agaatatgga acaagtaaag 360

<210> 10845  
 <211> 376  
 <212> DNA  
 <213> Zea mays  
  
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 <400> 10845  
  
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 ttttatagcc tccccaaaat taaattttatt gcccgctttt taaaaacctc atcaattgaa 240  
 aaacccttgg ctttcccaaa cttatcccct ttcaaaaaaa tcaccctttt cccaacctgc 300  
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 aacatggcac cccctt 376

<210> 10846  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-060-Q1-K1-D3  
  
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 gtcggcgccc gcctctccgg cgtcgtctac gagcacctcg tcgccggccc ggccgccgag 240  
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 caagagcagc aggacgtcgt cgtcgtcccc gtcctcggga atcttctgaa taaaaaaaaac 360  
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<210> 10847  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-060-Q1-K1-A6

<400> 10847

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atcctttttc cggtttcaag tttgttggtg aagagagggg tcagtgcctt tctgggaagg 180

tttcttacia caaacgatct gacaacgttc tttctttgag cataccactg catgaggcaa 240

ctaataaaga gcagctagaa gcttttaatg agaagaaagc tgcaatgaac ttggatggaa 300

aagaagtgtc taatgaggat attgtcaggc ctagagtccc attggaggca tgcttggtgaa 360

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<210> 10848

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-A9

<400> 10848

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gagatcacag aggacgtcca gttgctcgag gggtagtcc aggcctccgg gggatcctgg 180

gagtcgagct tgactaggcg aggacgttgt ggtgggcgtg ctagaggcag gaaacctcgg 240

aaaactgtag taaccgtaat tgtacaggag gaggaagagg aggaggtaga ggttagccca 300

ccgccaaaac ctgctggcac tggggaatag gaagccgatg gcaggggtat gatcgggtgg 360

ggcagaacaa caaggcgggtg tcacagagcg agatgttcgt caggtaacag catggctact 420

<210> 10849

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-B1

<400> 10849

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cccggcggga aggtgtgcct ggtcgggatg ggccacaacg agatgacgct gccctgacg 180  
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 tttcgttttt 310

<210> 10850  
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 <212> DNA  
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 <223> Clone ID: LIB3059-060-Q1-K1-B10  
 <400> 10850

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 ggctgcagc agccgactcc atgcccctac gctgctgccg gcggtgtccc cactgaaga 300  
 aactatgtgc tgtagtatag ccgctggcta gctagctagt tgagtcattt agcggcgatg 360  
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 g 421

<210> 10851  
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 <213> Zea mays  
 <223> Clone ID: LIB3059-060-Q1-K1-B3  
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aacgccatcg agggcatgaa cggcaaggag ctggacggcc gcaacatcac cgtcaacg 358

<210> 10852

<211> 420

<212> DNA

<213> Zea mays

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<400> 10852

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gcggcctcgc ctggggccacg gacgaccact ccctccacaa cgccttcagc acctacggcg 180

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tcgtcacctt ctccacggag gaggcgatgc ggaacgccat cgagggcatg aacggcaagg 300

agctggacgg ccgcaacatc accgtcaacg agggccagtc ccgcggcggc cgtggaggcg 360

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<210> 10853

<211> 410

<212> DNA

<213> Zea mays

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<400> 10853

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ggcgacgtgg tggccatgcc ggccggcgcc cagcactggc tgtacaacga cggcgacgcg 180

ccgcttggtg cggctctacgt cttcgacgag aacaacaaca tcaaccagct cgagccttcc 240

atgaggaaat tcttgctggc tgggggcttc agcaaggggc agccccactt cgccgagaac 300

atcttcaaag ggatcgacgc ccggttcctg agcgaagccc tgggcgtcag catgcacgtc 360

gccgagaagc tgcagagccg gcgtgaccag cgaggcgaga tcgtccgcgt 410

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<211> 266

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-B6

<400> 10854

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<210> 10855  
 <211> 396  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-B7

<400> 10855

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 ccaactccaag ctctccggtt tcagggtcac gagccgtatg cacatccctg tttgctgctg 240  
 aaccacact tgacgcggcc ggccggggat gcgtcagatc caattaatat aatccaccac 300  
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<210> 10856  
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 <213> Zea mays

<223> unsure at all n locations  
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ctcaagtgcc tgtgcggtta caagaactcg ccgtggatgg gcgtctacaa catcgacccc 360  
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<210> 10857

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-B9

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aggcgatgcg gaacgccatc gagggcatga acggcaagga gctggacggc cgcaacatca 360  
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<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-A3

<400> 10858

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<210> 10860  
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 <212> DNA  
 <213> Zea mays  
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gcacaaaaca tcaaggcaca tcaactacga caacttgtgc tagcaaacct tgctgcctac 360  
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<210> 10861  
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<212> DNA  
<213> Zea mays  
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<400> 10861

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<210> 10862  
<211> 437  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-059-Q1-K1-H3  
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<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<210> 10864  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-H5

<400> 10864

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ttcaagaagc cgattgggtgc taaaaagcct ggaaataaga ctggtggact tgggtgcacgg 180  
aagcttacat caaagccaaa tgaaagcctc tatgagcaga agcccagga accagctccc 240  
gtcctgccat catcggtgat tgagagtact acaactagga gcaaatcaca tacttcccga 300  
tttgattacg ttgaaaatgc acctgctctt aagaatggga atagctcaga aggcaaccac 360  
atgagtggac atgttgcacc cccaatgtcg tc 392

<210> 10865  
<211> 371  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-059-Q1-K1-H6

<400> 10865

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aaatgaatgg cagagttgct gattctatgc ttgtgaatac tgcacttatg ttgatctata 180  
tcactaagtt cttttgggtg gaatctggat attgggtgtac tatggacatt gctcatgata 240  
gagctggttt ctatatctgc tgcggatgct tgatatgggt tccatccata ttacttncc 300  
ctggaatgta ccttgtaaac caccctttga atttgggccc ccaactagca ctctcaattc 360  
ttctagctgg a 371

<210> 10866

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-059-Q1-K1-H7

<400> 10866

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tgcgcggggc tgcagggctt gtacggcgct ggcgcgggcc tgacgacgat gatgggcgcc 180  
ggcgggctgt acccctacgc ggagtacctg aggcagccgc agtgcagccc gctggcggcg 240  
gcgccctact acgccgggtg tgggcagacg agcgccatgt accagccgct ccggcaacag 300  
tgctgccagc agcagatgag gatgatggac gtgcagtccg tcgcgagca gctgcagatg 360  
atgatgcagc tngagcgtgc cgctgccgnc agcagcagcc tgtacgagcc agctctgatg 420  
cagcagcagc agcagc 436

<210> 10867

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-H8

<400> 10867



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cagtggcagc taccaacaag gtcaagctgg cagcgcccaa cagtaggcac aacctcagag 120  
tgatctgcct gaataagtac tcgtagactg taataattaa acaaagcttg ctcatgggta 180  
aaaaaaaaatg atcaaatact acaagatcca gaaggaaata caatgcagca tgtagctgt 240  
ataaccctag tacgtccaa 259

<210> 10868

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-H9

<400> 10868

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tcaggatcgt ataaaggagc tccgggaact cgtacctaat ggggcaaagt attgatgcat 180  
tactggagaa gaccattaag cacatgcttt tcttgcaaag tgtgacaaag catgcagata 240  
acctcaagga ctcaaacaaa tctgatattc ttggtggtga gaatggtcca ctcaaagact 300  
acttcgaagg tgggtgcaact tgggccttgg atgttggttag tcgatctatg acgtgcccaa 360  
tcattgtcga ggatctcgag cggcctcgtc agatgcttgt ggagatgctt tgtgaggata 420  
gaggtatctt 430

<210> 10869

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-A10

<400> 10869

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actactgatg ccattgggta ccatgaaccc atggatgcag tactgcatga agcaacaggg 180  
ggttgccaac ttgctagcgt ggccgaccct gatgctgcag caactgttgg ccttaccgct 240

tcagccgtgc cagatgccaa tgatgatgcc aggtatgatg ccaccgatga caatgatgcc 300  
 gatgccgaat atgatgccat cgatgatggg gccgactatg aagtcaccaa tacgatggct 360  
 aatatgatgc caccgatgat gatgccaaac atggtttcac caatgatga 409

<210> 10870

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-A11

<400> 10870

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 tcattttggg cggaggcact ggatctcagc tctttcctct gacaagcaca agagctacgc 180  
 ctgctgtacc tgttgaggga tggtacaggc ttattgatat ccctatgagt aactgcttca 240  
 acagtggat aaataagata tttgtgatga gtcagttcaa ttctacttcg cttaaccgcc 300  
 atattcatcg tacatacctt gaaggcgga tcaactttgc tgatggatct gtacaggtat 360  
 tagcggctac acaaatgcct gaagagccag ctggatgggt ccagggtaca gcagactcta 420  
 tca 423

<210> 10871

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-A12

<400> 10871

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 gaagctcata ctgcctttct actccttcac gctgttctgc atcatcctcc cgatgactat 120  
 gttcgtgccg gaggccgac tccccgactg ggtgggtgtc tacgtcccgg ccctgatgtc 180  
 cctgctgaac atcctgccgt gcccgaagtc gatccccctc atcatgccgt acctgctctt 240  
 cgagaacacc atgtccgtga ccaagttcaa cgcgatgac tccgggctgt tccagctggg 300  
 gagcgcgtac gagtgggtgg tgaccaagaa gtcggggccg tcgtcagatg gcgacctcat 360

cgcgctggcc ccgaccaagg agcctgtgaa acactcgacg 400

<210> 10872

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-G9

<400> 10872

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ggcctttttt ttgagataac aaggaggaga ggaggagatg gcggtcacga tcacgtgggt 120  
gaaggcgagg cagatcttcg acagccgcgg caacccacc gtcgaggtgg acgtgggcct 180  
tagcgacggc agctacgca ggggggcccgt acccagcggc gcatccactg ggatatatga 240  
ggccttggag ttgagggatg gaggatctga ttatcttggc aagggtgttc ttaaggctgt 300  
cagcaatgta aataacatta ttggaccagc aattgttga aaggaccca ctgagcatgt 360  
tgagattgac aacttcatgg tccaacagct tgatgggacc tccaatgagt ggggctgggtg 420  
caa 423

<210> 10873

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-F5

<400> 10873

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taccattcag ccagctagct gatgtgagcc ctgctgcctt cttgacacaa caacagttgt 180  
tgccgttcta cctgcacgct atgcctaacg ctggcaccct cttacaactg caacaattgc 240  
tgccattcaa ccaacttgc ttgacaaact caacagtgtt ctaccaacaa cccatcattg 300  
gtggtgccct cttttagatt gcttatgagt tatagttcaa taatgaagtt ttttggatga 360  
tgtttgtggc gtcccagaaa taagaaagta catttctaga ttctt 405

<210> 10874  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-059-Q1-K1-F6  
  
 <400> 10874  
  
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 gccactctgc aacccccctc ctctcgagca gagcagtcga gcagagcggc agcctcggcg 120  
 cgcgccggcg ccagccgaca tgactgccgg tcagtgcggc aacatccagg accaggaggc 180  
 agctcctggc gccgacctct acgccgtgct cgggctcaac agggagtga cgcacgccga 240  
 gctcagggtc gcgtaccgga ggctcgccat gatatggcat ccggacaggt gctcggcgctc 300  
 cggcagctcg gcgcgcgtgg aggaggccaa ggagcgggtc caggagatcc agggcgcccta 360  
 ctccgtgctc tccgactcca acaagcggct cctctacgac gtcggcgctct acgacagcga 420  
 ggacgacgac gctgacctgt c 441

<210> 10875  
 <211> 408  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-059-Q1-K1-F7  
  
 <400> 10875  
  
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 aggtgacaac atgattgaga ggtccaccaa ccttgactgg tacaagggcc caaccctact 120  
 tgaggctttg gacttgatca atgagccgaa gaggccttca gacaagcccc tgcgtctccc 180  
 cctacaggat gtgtacaaga ttggtgggtat tggaactgtt cctgttgggc gtgttgagac 240  
 tgggtatcatc aagcctggta tgggtgttac ctttggctct agtggcctta ctactgaggt 300  
 gaagtctgtt gaaatgcacc atgaggctct ccaggaggcc cttcctgggtg acaatgttgg 360  
 cttcaatgtt aagaatgttg ctgtgaagga tctgaagcgt gggtatgt 408

<210> 10876  
 <211> 326  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-F8

<400> 10876

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tagctgtgca catccctatg gacgactctt acgacactgc tgataacgat gttcatactg 120  
atcttcattg gaatgggtcac tgccatctac aacgcgttca actactgatg tcaattattc 180  
ggcacgctgt tctttaagct ctgggtgacc tttcatgtga tcgcgcatct ttacgctctc 240  
ctcaaggggc tgaacaggac gccgaccatg acgcctgcca ttgccattgt ctgggtctatc 300  
atcctgtctc tgatcttggt gctgat 326

<210> 10877

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-F9

<400> 10877

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ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc cgcacaaccc 180  
gctcccagc tgccgctggt acgtgaccag ccggacctgc ggcatcgggc cgcgcctccc 240  
gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300  
gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccc ccgggcccgg acgcgcagct 360  
ggagggccgc ctagaggacc tgccgggctg cccgcgggag gtgcagaggg gattcgccgc 420  
cacctcgc 428

<210> 10878

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-G1

<400> 10878

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ctcaggccgg tggcagtcgc cggcggcctc cgcggctaca acaccggcgc tccgctccga 180  
cgctacgagg gggccgagtc ggaagacgat agcgtccgcg agtacgatgg gcggcacggc 240  
ggccgggact acgctgtgcc cagcctgttc tcagatattt tccgtgatcc gcttagtgcg 300  
ccgcacagca ttggccgtct gctgaacctt gtggacgact tggcgggtggc ggcgccaggt 360  
cgtgcgggtgc gccgtggctg gaacgcgaag gaggacgagg aggcgctgca ccttgagggtg 420  
gacatgccag gcctggggaa ggagcacgt 449

<210> 10879  
<211> 371  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-G10

<400> 10879

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gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaggccagcc gtttttaaagg ttccaagttt acttaccctt ccttccaact tcttaacttt 180  
tctatagggg accctaaata aaatccattg gccgtatttt taaaaccttt taactggaaa 240  
aaccttgctt ttcccccaatt taatcccctt gctccaaatc cccttttcgc cagttgcatt 300  
attaccaaat aggcccatac cattagcctt tcaaaaaatt tgccaaacct gaatggcaaa 360  
tggaaccccc c 371

<210> 10880  
<211> 429  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-G11

<400> 10880

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gagaggggct tcgtcgccct tctctcccag ctctccccct gcccggaact caccacatcc 180

gtgttcgcca cgcgcttcgc cgagctcgcg gcgcagggcg acgaccacat catcctcgtg 240  
 gccgaggacc cctccgcctc ggaccggcgg atcctcgca cagggcgcct cttcgtggag 300  
 cgtaagttcc tgcgaggctg cggcaagggtg gggcacgtgg aggacgtggt ggtcgatgcc 360  
 gccgcgcgcg gcaggggtct cgggctccgc atcgtgcgcc gcctcgtgga gatctccagg 420  
 gacgccggc 429

<210> 10881  
 <211> 413  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-G2

<400> 10881

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 tctcagcaac agcagtttct tccattcaac caactagctg cattgaactc tgctgcttat 180  
 ttgcaacaac aactaccatt cagccagcta gctgctgcct accccaaca atttcttcca 240  
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 ttcagccagc tagctgggtg gagccctgct gccttcttga cacaacaaca gttattgccg 360  
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<210> 10882  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-G3

<400> 10882

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 gagcaaagtt gtgattgatt ggagggatgt gtctcctaag ctcagttctg aagctctcaa 180  
 ggcaacagtg aagaacttta aggctaagaa tgaggctgcg ctggagtcca caacagatgc 240  
 tggaaagcat gcatttatca aagaagcaga caagcactgc aaggcgatct ttgaaagct 300

gacccgtggc gccacctgcc tgaagagcaa gctgggtggc atcgcgctcg cttgtgctgc 360  
tagttacgtg ctgtctgctg gcatggacct cgagtaggtc caggcgatgg tctcatcgca 420  
cctgtcgttc taaaca 436

<210> 10883  
<211> 421  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-059-Q1-K1-G4  
  
<400> 10883

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gctccgtcgg ctccgcctgg gcacaggcgc ctccggcgag gcgggtcctg ccgcggcggc 120  
ggcggcgggtg agggcgtagc acgagcgggt ggtggaccac tacaacaacc cgcggaacgt 180  
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cggcgacgtc acgaagctgc agatccgcgt cgacgagaac tccggcatga tcgtcgaccc 300  
ctgcttcaag actttcggct gcggctccgt catagcgtcc tcgtccgtcg ctactgaatg 360  
ggtgaaggga aaaccaatgg atgaagtttt gacaatcagg aacacggaga tcgcaagca 420  
c 421

<210> 10884  
<211> 366  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-059-Q1-K1-G5  
  
<400> 10884

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ctcgcgtgga gggagtggca gaggccacgt cgtgccacga cgacgacgta tcctgcgagg 180  
cgaagggttg ccgggatacc accgtggacg agattgtgag gcgtagcctg gataggaaca 240  
tgaagtctat actgaggagg gccacggcgt ccgtggacct gaccaatgtt aagctgctcg 300  
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tttccc 366

<210> 10885  
<211> 314  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-059-Q1-K1-G6  
  
<400> 10885

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taaaccactc attgatgagc acttgagcaa taccaggag ataagaaaga gaattcagga 120  
ctccgtgctg acatagcagg gcgtacatat gcttgtgcat atgcggcggt ggaccgttg 180  
tagtacaaga tatgaatgtc tcgagatatg tgtactgtc tatgcctagg ctgatgtctg 240  
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tgtctgagca gatg 314

<210> 10886  
<211> 444  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-059-Q1-K1-G7  
  
<400> 10886

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ccatccacgc cagttcgcga catgtgcagt tgttggtaac tcaggagatc tcttgaaaac 180  
agagtttgga caagagattg atgcgcatga cgccgtgttt cgggacaatg aggcacctgt 240  
caataagaaa tatgcaaac atgttggtt gaaaagagac tttcgactgg ttgtccgggg 300  
tgctgctcga aatatggcac caatactgaa gggctcctgt aatgctccga tgaggcactt 360  
atcattaaaa gtttgacgca caaagaaatc aatgcggtga taaaggaact tccaaatcct 420  
gtctaccttt ttcaaggtat agtt 444

<210> 10887  
<211> 315

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-059-Q1-K1-G8  
  
 <400> 10887  
  
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<210> 10888  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-059-Q1-K1-F4  
  
 <400> 10888  
  
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 aacgtctgcg ccatggaggt gaggcacagc gtcgaacggc tggaccaggc cgacgtctac 180  
 agccctgggg ctgggaggat cacacgcctc accagccaca agttccccgt cctcaacctc 240  
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 aacttcaacg cccacagcgc catgtacggc atcaggggca gtgcaagggt ccaggtcgcc 360  
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 cc 422

<210> 10889  
 <211> 427  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-059-Q1-K1-E11

<400> 10889

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tattgaggct gtgaagatgt caaagcgtgc gggctggggt gtgatgacta gtcataaggag 180

tggtgagact gaggacactt tcattgctga tctggcagtt ggtttgtcca cgggtcagat 240

taagactgga gcacctgca gatcagagcg tcttgccaaa tacaaccagc ttcttaggat 300

tgaagaagag cttggcgcta ttgctgtcta cgcaggtgcc aaattccgtg cacctgtgga 360

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ttactgc 427

<210> 10890

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-E2

<400> 10890

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ggtagctgac cagccggacc tgcggcatcg ggccgcgcct cccgtggccg gagctgaaga 240

ggagatgctg ccgggagctg gcggacatcc cggcgtactg ccggtgcacg gcgctgagca 300

tcctcatgga cggcgcgatc ccgccgggcc cggacgcgca gctggagggc cgcctagagg 360

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<210> 10891

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-E3

<400> 10891

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 acagaacata ttgtaagcta tgttcatgag actagtccag aacgctctga tgatgcgctg 180  
 gacgactatc atccaggagc tgtcaatcct ttcgagcaac ttgaactgtt cataaaggta 240  
 gactacgagg aatacgacaa gcaatgctca ctgcattaaa gaaagcatag aaaggcgaaa 300  
 tcagctgaca gtgctaggct attccatgca ctgtcaaggc ctacgagctg gtgccaaact 360  
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<210> 10892

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-E4

<400> 10892

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 gactgcaata actgaacaga aaagtgaaaa aaacggaacc tgtgaaaaaa taggaagacc 240  
 tggaaaaaac gttagtgcac caaactgagc acattgaaga taaatcacgt tttagaaagc 300  
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<210> 10893

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-E7

<400> 10893

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 tgggagtcac acatggagag cagcagtagc ggtgttcagc aggataactc ccatgaggct 180  
 tacacaagtg cacagcaaag gatcgaaaca taccttgacg agatgaagga aactgctcaa 240

agagaaaggc agccactaaa ggagaatggg aggcaagttg ttgtgaatga acagaaggtt 300  
gataaattcc ttacacaaat gttgaaattg aactccacga tactcaggta ctccagaatg 360  
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atggagtaca tggatttgct tgtaa 445

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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-059-Q1-K1-E9  
<400> 10894

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acacaacaat tgagcacgca tgcaagctgt tttttttatt cagaagattc cgaggagcgg 180  
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agacgacgcc ggagaggccg gcgccgacca tgggccccac ccagtacacc cattggtgtc 360  
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cc 422

<210> 10895  
<211> 425  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-059-Q1-K1-F1  
<400> 10895

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caacatgacc gtcaacgagg ccaggtcccg cggcgggcgt ggaggcggcg gcggtgggta 120  
cgggtggtggc cgtggaggcg gcggctacgg cgggtggcgg cgccgtgatg gcggcgcgcg 180  
ctacggcggg ggcggcggt acggtggcgg cggcggtac tgtggtggtg gcggcggtta 240  
cggcggtggc aaccgtggcg gcggctacgg caactccgac gggaactgga ggaactgagc 300

ggtggggccc gcgcggtcaa gttatcctgt tcgctgccgt gatgtttacc ctagtccaga 360  
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 cgctc 425

<210> 10896  
 <211> 414  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-059-Q1-K1-F12  
 <400> 10896

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 ggatgatccc actgaagctg ctccagcaga tgaagaaatg tgaccgcaaa acattgatac 180  
 ggaagacaat gtattatgca ggaaagagga agcaaggctc aaggaagagc actggcttaa 240  
 tggaaccctt agaactagca agaggaagta ttaattttcc aacaaatcag aatatggaga 300  
 aaatgggact cacgctactc ctgttcaacc aaggcaacca atctatatag atgcaacgga 360  
 gtccgaagag gcgaaattgc tagcccagaa ttaaccata ctggaatatg attc 414

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 <211> 317  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-059-Q1-K1-F2  
 <400> 10897

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 aggaagtcga gcgttcgggc gcaagatgog ttgtctggca tgctgttcct tgaccatttg 180  
 tgctgctagt atgtactgtt ataagctgcc ctagaagttg cagcaaacct ttttatgaac 240  
 ctttgtatct ccattacctg ctttggatca actatatctg tcacccata tattactaaa 300  
 tttttacgtg tttttct 317

<210> 10898

<211> 287  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-059-Q1-K1-F3  
  
 <400> 10898  
  
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 ctgattgaac atattatttg taagattatt ctctgaagca catgtataga ggatttagaa 180  
 gaattccttt cggacctggt tttgaatctt atttactttg tggaactgaa attttgggcc 240  
 aaacctctga caagaattga aaagttaag tcttcaacta tgaaaca 287

<210> 10899  
 <211> 431  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-059-Q1-K1-E10  
  
 <400> 10899  
  
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 agcgaaccca aagttgccac cgtcggcagc atgttgtgct gtgtggaaga ggcagatgt 180  
 tccatgccta tgcaaatatg ttaacaagga agtagagaag gtatgggtgca tggagaaggt 240  
 tgtgtacgtc gccaaactatt gtaagaggcc gtttcaacct ggctacaagt gcgggagtta 300  
 tacagttcct cttagtatgt aaaaggagtg gttgggacat gtggtactct ctcctagaac 360  
 ttttaatttga gatttgtaac atgtgagaga ctattgagaa taatatgtat ggagtaatat 420  
 gcttccttct t 431

<210> 10900  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-059-Q1-K1-C12  
  
 <400> 10900

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gcaggaatcc ctccccttac tttaacaacag aacaaagatt tggccaaaca aatccataca 120  
acaattcaat ccgtaggtct ggtgctatag taaacagcgg tggcgggtggc ggtagcgcct 180  
gaacgaacaa ggcgaaagaa attattgtcg gcgaaagggc cgggacctgg accagacctt 240  
tcctcggcag tctggcggat ccggcgccgc ctccagccgc gcagcgggtg atgcggggagc 300  
agccgcgggtg gtaggggttg gcctggccgc ccgggcggca gttgtagtag ctggcgccgc 360  
ggcgggagca gggcacgttg tcccgccgca gcgcgccgta gctgatgtac cc 412

<210> 10901

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-C3

<400> 10901

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cactaactgt ggtaagatca ggttctactg ctgggatacc gcatggcaag agaagtttgg 180  
tggcctcagg gatggatact atatccatgg ccagtgtgcg atcatcatgt ttgatgtaac 240  
ctcaaggctt acttacaaga atgttcttac gtggcatagg gacctgtgca gggctctgtga 300  
aaacatcccc attgtcctct gcggtaataa ggttgatgtg aagaacaggc aggtcaaagc 360  
caagcaggtt actttocaca ggaagaagaa tctgcagtac tatgaaattt ctgccaagag 420  
caactacaac tttgag 436

<210> 10902

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-C4

<400> 10902

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atggaagtga cagcattgag agtgctaata aggagattgc cctgtggttc cccgagggcc 180  
ctgctgattg gcagagcagc cagcaccctt ggatctacga gaagtaaaca tggaaagttt 240  
cacatcaaac cttgagagcc agaggaagca tgtcaccatt tgtgcttttag caatgttttc 300  
gaaaagatta tgatctgtat cttggaacct tatttcaatg gaccaaattt ctttcaaaaa 360  
aaaaaaaaat cactaatct 379

<210> 10903  
<211> 442  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-059-Q1-K1-C6  
<400> 10903

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caaaaacaag tacaacacac ccaaatacag atttgttgtg cgatttacca acaaggacat 120  
cactgccccaa atcatatctg ctagtatagc gggatgatg gttcttgctt ctgcctactc 180  
gcatgagttg ccacgatatg gtcttgaagt tggctgacc aactatgcag ctgcctactg 240  
cactggcctt ctgttggtc gccgtgtgct caagatccgt ggtttgatc aggagtacga 300  
gggcaatgtt gagggcaactg gtgaagactt ctctgttgag ccagctgatg agaggaagcc 360  
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tgccctcaag ggagcattgg at 442

<210> 10904  
<211> 441  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-059-Q1-K1-C7  
<400> 10904

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tgttgctgaa cctagctcga tatgcaaact tcaggtgat ctccccattg ccaggaggca 180  
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ccccgctaag tcgtccgatg gcatggagtc accgaggatt gaggtgacag cggaggggcaa 300  
 ggcccagtaa cttgaaaggt ccccggaag tcccatcggt gaaggctgac gttgtgggaa 360  
 ggggcaggga catgcttggt ttgcctttat gttatgtggc ggcggcagcg tggaaccgca 420  
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<210> 10905  
 <211> 384  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-059-Q1-K1-D10  
 <400> 10905

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 gggttcaaac aagctgaaaa tggcaacact gaacctaaaa gcatggataa cgctaacggc 180  
 gatgatgacc cgatatcaag gctacagcta ggcgacggta ctgccatttc agaagctgca 240  
 gtgaacgcca agttccttgt tgagcacgag gagggttaca ttccacatct agctgcactt 300  
 gtgatcgaag agcaattcca taagatggat acagtacagt cgtttctcac cgaagatgga 360  
 aacctggtgt tacgatcgag agat 384

<210> 10906  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-059-Q1-K1-D11  
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 cccgccccaa gccgggcgtc gagcgcgtcg ccgtctccct cgacctctac aaccagggat 240  
 ccgagactgc ctatgatgtg tcaattaatg acgactcttg gccaacacaa gcatttgagc 300  
 ttgtcactgg agagaaatcg aagacattgg aaaggcttga ccctggtgcc actgctacac 360

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cgtacc 426

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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-059-Q1-K1-D12  
  
<400> 10907

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gggtctgccc gttgccgcga cggatgaactg cgccggacaac acgggcgcca agaacctcta 180  
catcatctcc gtcaagggca tcaagggccg cctcaaccgc ctcccgctccg cctgcgttgg 240  
cgacatggtc atggccaccg tcaagaaggg gaagcccgac ctccaggaaga aggtgatgcc 300  
cgccgtcatc gtccgccagc gcaagccgtg gcgcccgaag gacgggtgtct acatgtactt 360  
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tggacctatc 430

<210> 10908  
<211> 433  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-059-Q1-K1-D4  
  
<400> 10908

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gacattggcc gtcagctgct gacctatgga cgaagaattc ctacccccga gctttttgca 240  
agaatagatg ctgttgatgc aagcactgtg aagcgtgttg caaacgcgtt catctttgat 300  
caggatgttg ctattgctgc gatggggccg atccaaggac ttccagacta caactgggtc 360  
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433

<210> 10909

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-D7

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caagctccta tagcttcctt tcttcccccg tacctctcac cagcgggtgc ttcggtatgt 180

gaaaacccaa ttcttcaacc ctacaggatc caacaggcaa tcacagctgg catcttacct 240

ttatcacctt tggtcctcca acaatcatca gccctattac atcagttacc tttggtgcat 300

ttattggcac aaaacatcag ggcaacaaca ctacaacaac ttgtgctagc aaaccttgct 360

gcctactctc agcaacagca gtttcttcca ttcaaccaac tagctgcatt gaactctgct 420

tcttatttgc aacaacaac 439

<210> 10910

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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gtttgctcct agaccagtg tcaactgacca gtcgaagaat acaatattct ctaatgcctt 180

atcaagccca gtgcgcagga gtctccagaa ctctcatacc actcaaggty ctggcaatgg 240

aggccggaat gcagaagcaa acttagcagg tgcaaataga gaggccaatt ctacaagctc 300

caacgacact tctatggata tggtttcaga cacgaatgaa ttctaccagt gatttgcagt 360

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<210> 10911  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-059-Q1-K1-D9  
  
 <400> 10911

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gcgggagctc ggcgtcgccg cgcggaagct cgccaaccac gcattcgctc tcggcgccgg  180
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gatattggat cgcacaaatt ggaagaccaa catgctgaca gctctcttgg ttccttacat  300
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<210> 10912  
 <211> 365  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-059-Q1-K1-A8  
  
 <400> 10912

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gctgaggtct aaggteccaa cagcgctctc gaaatggcag tttgatctgg tcctagctag  180
gtttgtatct tatgataagg gcagtgtctg gacagtctgt tccgtgtcac ttctgtttaa  240
aattaagttt tgccgagaca agctatatgt accggatgaa agtgtgggtc cttattgtat  300
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<210> 10913

<211> 429  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-A9

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gcgggtcgtc aagacccttg gtggcaagct cgtgtaccag tacaccaaga agagagccag 180  
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gtaactctg 429

<210> 10914  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B10

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atcttcaagg tgctgaagca ggtgcacccg gacatcggca tctcctccaa ggccatgtcc 360  
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<210> 10915  
<211> 431  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B12

<400> 10915

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gatcctgcgc gagtgtgata cactgaactc aacacctgac tatactccat cccggcacgg 240  
tgcggtgctgc gtggcggtga gaaagggtgc aggaaccaac atgctttgca ttgcctccat 300  
actctcactt gctgacaagg ccaaatacag tgtaaggaag attctaggat ttagagatgc 360  
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<210> 10916

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B2

<400> 10916

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ccccagccac cgggtggctgc ggcggcagcc taggcggcgt tgctcgagctg ccgacagagg 180  
agggaggact ggaccagaaa ggtgaaggct gtgccgtgtg tcgatcaata ggcccaaata 240  
ccaatacaag gaatgcaata agagacatgg ttgtccgtgg tgctccagca atagccatag 300  
cagcggcact agcattagcc gttgaagttt ctgatttaga ttttattggg acgcctgaag 360  
aagcagcttc ttttgtttca aagaaattgg aataccttgt atccagccga ccaactgcag 420  
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<210> 10917

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B6

<400> 10917

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gcagcaatag gggcacgacg ataaatcgca gaatcagagg tcggagggga gcgaggagca 180  
gagcaagtga ggaaggggaa ggcgagctcg caggcgact acttatgggc gtccggagga 240  
gggaagacga gtaggcgatg gtgcttcagt gtggccgacg actcttccgt gccagcaggc 300  
acaattactt ggagaagaaa tagacgaagt taatggaaag gaagagaaac ggacgacgtc 360  
cattgagaag gagaggcgag cggacggagt gaaaactcgt gtcgcgcaa cgcattcatg 420  
tggtgcgagc ggcggtgcgc g 441

<210> 10918

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B7

<400> 10918

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gcgaaaatgg tcttgagcta aagcaagaga ttcagaagca atttagaaac attagtgcaa 120  
ttatggactg tgttggatgc gagaagtgcc gactgtgggg aaagctccaa gttcatggtc 180  
ttggaactgc actgaaaatt cttttctctg ttgatgggga cagccatatg aatcagccat 240  
tgcagctgca gcgaaatgag gtcattgcat tgttcaatct tctgaacagg ctctcagagt 300  
ctgtcaaatt tgtacatgaa aaaggatcat caattgaaga agtcattgag gaacagatcc 360  
cttcaacggt tcaaaagagt gtttccatgc cgaatcttaa actggacttc ctctgagatg 420  
tatgagagta attttagtt a 441

<210> 10919

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B8



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aagagcagag tgagatcgtc gtcagcgagc ccagcagata cgagagagag gatggcggac 120

atcgcgttgc tgggtggcgga gcagttcgag aagacggcaa ggcgaggcgc ccccggcggg 180

gacagcggca gcagcagcgg gagcggcggc gagacaagga acttcggggc cgtggccaag 240

gtgtggagct cgtgggtgga gtccgccttc gtcgtcgcgt ccggggtcag attcacgcgc 300

gcggtgcagc tggagcccaa gaccgggctc gcgctggccg ctgccgacgg ccttttttcc 360

gcctagcttc ctgcctgctt ccatgtcttt ctctgagca gtgccagtga tcgagcgagt 420

cct 423

<210> 10920

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B9

<400> 10920

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tggctggtga atccctggaa ataccccaaa caaatTTTga atcggagaat caacctcata 180

atgacgatgt caacattgag aaacagacaa ttacgagtag cacactctca ccaaatgggtg 240

ccaaggggca aaaggagct caaaggagaa accagaccaa aaaaaggaat caaagaaaaa 300

tccttggaaga tgctgacctt gcatgccagc ctggagttag aaaaagctca agaacacgct 360

caaggccttt ggagtattgg cttggtgaaa gattactata tgggcctata catgacaatt 420

tgcatgga 428

<210> 10921

<211> 345

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-058-Q1-K1-H2

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aatctagaaa atatnactcc tatacatagc cacacctatt cccgtatcca ctgatgcac 120  
caagcccatg ccagctgtac agaaccgcga gtatatataa tacctcaata ctggccact 180  
tcgtagatth cctcatgcat tacagtagtc tcaatgcac tccctactaa tggggtaact 240  
accagaatth cccataaccag tgttttcaag cccatcatgct ggtgaaacct tagctttctc 300  
accatgctaa accctgctat gcattccact atatcctgct gtagc 345

<210> 10922

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-H3

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gaccctgggc ggcgggcgat ccccggtgg cgcgcttctt aacctgcgc cgcgcgcaac 120  
ccgggggtggc cccaatccgt tgcccgggct gcgcgtcggc tctgggtgcc gtcacataac 180  
tattggttcc gcggaagcaa gcccgcgccc caacggcccc gtttcccaag ggtgctgatt 240  
tatttttccc ggcagtaac tcgaaca 267

<210> 10923

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-H4

<400> 10923

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caatgagatt caagaaaaag ccggcttgcc agacagacta ccaggccagg ataaaggctg 120  
ttaaccaag aaaaaacaag tacaacacac ccaaatacag atttggtgtg cgatttacca 180  
acaaggacat cactgcccac atcatatctg ctagtatagc ggtgatatg gttcttgctt 240  
ctgcctactc gcatgagttg ccacgatatg gtcttgaagt tggctctgacc aactatgcag 300  
ctgcctactg cactggcctt ctgttggtc gccgtgtgct caagatccgt gggttggtac 360

aggagta

367

<210> 10924  
<211> 424  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-058-Q1-K1-H5  
  
<400> 10924

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ttcttgaatg ctcttatctg ggggcaaaag tcctcaggtg ctgttccatt caccaccatg 120  
tttgctcttg tcctcctttg gtccggtatt tcagtacctt tggtttttgt tgggaagcttc 180  
cttggttca agaaacctac cattgaagat ccagtgaaga caaacaagat accaagggca 240  
aatccctgag caggcctggt acatgaaccc aatcttctcg attctaactg gagggatcct 300  
tccatttggt gctgtcttca tcgaactctt ctttatcctt acttccatct ggctgcacca 360  
gttctactac atctttgggt tcctcttcct tgtgttcctg attctcatcg tgacatgtgc 420  
tgag 424

<210> 10925  
<211> 454  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-058-Q1-K1-H6  
  
<400> 10925

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atTTTTggct tcttgaatgc gcttatctgg cggcaaaagt cctcaggtgc tgttccattc 120  
accaccatgt ttgctcttgt cctccttttg ttccggtattt cagtacctt gggtttttgtt 180  
ggaagcttcc ttggcttcaa gaaacctacc attgaagatc cagtgaagac aaacaagata 240  
ccaaggcata tccctgagca tgctgtgtac atgaacccaa tcttctcgat tctaactcga 300  
gggatccttc catttggtgc tgtcttcac gaactcttct ttatccttac tttcatctgg 360  
ctgcaccagt tctactacat ctttgggttc ctcttccttg tgttctcgat tctcatctg 420  
acatgtgctg agatctcgat tgtcctatgt tact 454

<210> 10926  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-H8

<400> 10926

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cgccaatgcc tggcatgggt ggtcctccac ctccgatggg tggaatgggc atgcctccca  120
tgggcgggat gggatatgcc cccgatgggc ctgggtccgat gccagcattc ggaatgggag  180
gctactgagt ggtgggttttg cagggagctt agatgatgat gtgaattgtt ccattgcaag  240
cataagcgga acctcattgg agctgtagat ggtttacagt ttgggaaatc aatattcttt  300
attgtaccag gaaacttttt ttttttgggc gagtgagcag cctggcccat agtttgtgaa  360
gtgcaacctt cgatatgttt aacgatggga tcggaaatag gatgattagg ttgt      414
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<210> 10927  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-A10

<400> 10927

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atattttcca tccttatgct ccttgctctt tctgcatgtg ttgctaacgc gaccattttt  120
cctcaatact cacaagctcc tatagctgcc cttcttcccc cataccttcc atcaatgacc  180
gcttcagtat gtgaaaaccc agcccttcaa ccctacaggc tccaacaagc aatcgcaaca  240
agcaacttac ctttatcacc cctgttcttt caacaatgc cagccctatc tttggtgcag  300
tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc agtgatcagc  360
caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac  420
caactgtct                                     429
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<210> 10928  
 <211> 428

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-059-Q1-K1-A11  
  
 <400> 10928  
  
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 tgatgcacaa tcacgtgct agctgttgat ggcagtagct gctgcaggaa gcatcgaacg 120  
 tctgtgctca ctcgctagta tggctacact tattcgtcaa tcactatgac catcaagatg 180  
 ttccgtgtgc gaagatgcaa tgcgaattgg atacatgac caacaggtagc tggtagctac 240  
 tattggacat gtgtaactgt tgctcgtacg acaatcatca tccatattac atacaatgca 300  
 ttagacgctt agattgtgac gacacatacc gtcgcaacga ctgccactgc tcgtgctaac 360  
 gctgcttgat gcatactgtg atgcacaact gactccggag gtgcatttgg tggcacgaag 420  
 cataccgg 428

<210> 10929  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-059-Q1-K1-A12  
  
 <400> 10929  
  
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 gctgttgaaa tctccgatcc ctttggggtg acccactgga catggccaat ttgtcacaat 120  
 ttattatattt gaccatgtc atgtgaaact cctttcgttg aagtctggta tctagattga 180  
 cttgtatcag agctgtggtt tacgcagact ggattctgga gtactggact gtgtgtgtgt 240  
 ttttcggaac tgtgcatctg acttttagct gttcgttgac tttgtttttc ttttttcaga 300  
 taaagagctg tttcttgatt tgatgcagaa aaaaaaacta caacaactca agctaact 360  
 aaaaaataaa atacaaaaaa caaaaacaat atcataaaat gcatttgata gc 412

<210> 10930  
 <211> 446  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations

<223> Clone ID: LIB3059-059-Q1-K1-A2

<400> 10930

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cagcagcagt ctcttacctt cgttcccgcg gaccagctcg gagaccgcgg ccttcgctgg 180  
cgcgcggtatc gactggaagg agactccaga ggcgcacgtg ttcaaggcag acgtaccggg 240  
gctgaagaag gaggaggtca aggtggaggt cgaggacggc aacgtccttc agatcagcgg 300  
cgagcgcaac aaggagcaag aagagaagac ggacacctgg caccgcgtgg agcggagcag 360  
cgggagattc ctgcgcatgt tccgactgcc cgagaacgcc aagacggagc agatcagggc 420  
cgncatggag aacggcgtgc ttacag 446

<210> 10931

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-A3

<400> 10931

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ggcttcgtga ggttctccgt ggttgggttt ctgggggtgg ccatcgata tgcctctctt 120  
caatgttcac tactcgcttc tattttcatt ggactctgct gagccacgta ccaccactcg 180  
ctgaacaacg ctttctgcac ctaccgagat gtcctatagt acatgatcct cctcgatctg 240  
cagacgcaca tgttacgctg attaggatta accatcttat acacatatga tgcaatgcgg 300  
cacgccatct tagtgcata actgtctgga gctatacggg cgcaacatct ccgtcaa 357

<210> 10932

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-A4

<400> 10932

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gtccggtcct gctgctcagc atatgcccgc cggcagagat tgccctggag atcccatctc 120  
 ttacgcctac tcttgagac gccactctgg aagcggtact gcgatgaaac aggctcagcg 180  
 ctgtagatta ttgtcccga gtttctgct agccctgaag aacactaact gcatgtagcc 240  
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<210> 10933  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-059-Q1-K1-A5  
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 atggagacca agatattttc cctccttatg ctccctgctc tttctacatg tgttgctaac 120  
 ggcacaattt tccctcaatg ctcaacaagc cctatagctt ccccttttcc cccatacctt 180  
 ccatcaatta tagcttcagt atgtgaaaac ccagctcttc aaccatatag gcttcaaaaa 240  
 gcaatcgcag caagcaacat accttttatcg cccttggtgt gtcaacaatc gccagcccta 300  
 tctttggtgc agtcattggt aaaaaccatc agggcacaac agctgcagca actcgtgcta 360  
 cctgtgatca accaagtagc tctggcaaac ctttctccct actctccgca acaacaattt 420  
 cttcattca accaactgtc ta 442

<210> 10934  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 gccctccttg ctctttcagc aaacgttgct accggactat tattcacaat gctcacaaca 180  
 atacctcttc cggtgacagc cgcgagattt gaatacccaa ctatacaatc ctacaggcta 240  
 caagaggcca tcgcacaagc atcttacggt cgtagcattg actgttcaca ccatatgccc 300

tattgcaaca accatcctaa tgaatctata tcntccaaga atcgtagcac atcaactaca 360  
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<210> 10935  
<211> 445  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-F8

<400> 10935

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ttcgtgggtg agcggatcga gatggcggcg tcggatgttg agtaccgctg cttcgtcggc 120  
ggcctcgcct gggccacgga cgaccactcc ctccacaacg ctttcagcac ctacggcgag 180  
gtcctcgagt ccaagatcat cctcgatcgg gagacgcaga ggtcccgcgg cttcggttc 240  
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ctggacggcc gcaacatcac cgtcaacgag gccagtcctc gcggcgggcg tggaggcggc 360  
ggcgggtgggt acggtgggtg ccgtggaggc ggcggtctac gcgggtggcg gcgccgtgat 420  
ggcgggtggcg gctacggcgg tggcg 445

<210> 10936  
<211> 288  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-G1

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caagcccgtg ccagctgcag ggaacctgc gcgttggcag caccctgac ctgggccagt 180  
gcgtcgagtt cctgaggcat cagtgcagcc cgacggcgac gccctactgc tcgcctcagt 240  
gccagtcgtt gcggcagcag tgttgccagc agctcaggca ggtggagc 288

<210> 10937  
<211> 435



<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-058-Q1-K1-G10  
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 accattttcc cacaatgctc acaagctcct atagcttccc ttcttcccc atacctatca 180  
 ccagcgggtgt cttcagtata tgaaaaccca attgttcaac cctacaggat ccaacaggca 240  
 atcgcaacag gcatcttacc attatcaccc ttgttcctcc aacaaccgct agccctatta 300  
 cagcagttac ctttgggtgca tttggtggca caaaacatca gggcacaaca actacaacaa 360  
 cttgtgctag caaaccttgc tgcatactct cagcaacatc agtttcttcc attcaaccaa 420  
 ctggctgcat tgaac 435

<210> 10938  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-058-Q1-K1-G11  
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 ccatcagata actattatgg aatatgccgg atttcctttc cccactgttg ctttgaagga 180  
 gggcctaact gcatcaagtt agcagagtgt tcagcagagc tacgaagaac ttgaagcagc 240  
 atttgagcca gggaaagaat tctgctttga cgcgacaatt cgttttaaact aagcttgcca 300  
 ctaggattga tcaccagcct cctccaatat tgtgacctca ttagtagttg ttaagaaatg 360  
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<210> 10939  
 <211> 423  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-G12

<400> 10939

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agcccctgcg ctgacgattt gactgccatt ctggagtcag ttggctgtga agttgacaat 180  
gaaaagatgg aactcctgct gtcccaactg agcggtaagg acatcaccga gctcattgcc 240  
gctggcaggg agaagtttgc ttcagtccca tgtggaggca gcggtgtcgc tgctgcagca 300  
gctgcacctg ctgctggcgg agctgctact gcagatgagg ctaagaaaga agagaaagcg 360  
gaagagaagg aagaaagcga tgatgatatg ggcttgagac tcttcgacta ggctgcacag 420  
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<210> 10940

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-G3

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tctccgtgg cttccatggc gaactcaggc ctagggcttg gacttgcgcc accgggcgcc 180  
gagccctctt cactccagc ccagtgttg gccaaacggc gcgtcgtgcc cgccttctct 240  
taattcaagg gccgaaggca tggcgtcgta gtatgtgtgg cgcctccagt ttgcgtgtga 300  
cctccctggg gaccttcttc gcactggtgt cgaagcttga cctaacctgg ccaggccgaa 360  
ccttaaacca agtcttggcg atccagatcg ttcggtgagg catgaagacc ccaagccaac 420  
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<210> 10941

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-G4

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cgaaggggttt ctttgctttc ataggggaac actttgagag ttctgaagag ctgaaacatt 120

tgaagaagt gctgcttgat cttttcagag gagaggctgt agagaatctg aaccttgccg 180

gtgtggatcg gatctatgtg tgcactgcaa tctctccac cactgtctac atgatgcact 240

gtgctctccg tctaaaaagg tcaggtagat ctattcctag gatggagctg gtcgaagtgt 300

gaccttcaat ggatctggtt gtaaggaggc acagacttcc agctgaaagt ttgaagaaag 360

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<210> 10942

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-058-Q1-K1-G5

<400> 10942

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tttagggaaa agcgggaagga gcggaacttt gataagaaga tccggtacaa tgtccggaag 180

gaagttgcac ttaggatgca gcgtaataga ggtcagttta catcttcaaa accaaagcct 240

gatgaaatag cagcatcaga aaatggcagc tgcagatggc tctctgaatt gngcactagt 300

tgaagggccg acctccatct gctgctgaat ggtcatccct gtggtattaa tgcaacagct 360

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<212> DNA

<213> Zea mays

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<400> 10943

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 agccggagat acggatcccc gtcagcgagc tgccggagtt cttgagacgc ccagcgaagg 180  
 gccaaggcac gttgaaccct tgcaacgcgg cgatggccag gtgcctgggc gtcgcctaca 240  
 acacgttcgc gggcctggag caggagtacc gcgaggcgag catgcgcgtc gcgtccttga 300  
 agcgcagcta cttcgtcggc cccgtctcac tgccgtgcc gccggccgcg gcagggcgtca 360  
 ctgagcctcc atgcatccgg tggctccact ccaagccgag ctgctcgggtg gtgtatgtgt 420  
 gtttcggcac ctacgcgcgc atctcg 446

<210> 10944  
 <211> 351  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-058-Q1-K1-G8  
 <400> 10944

aaaaaaaaaa aaaaagaaat aaaaaaat t aaaaaaaaaa aaaaaataaa agaaaaaaag 60  
 aaaaaataaaa aaaaaaaaaa aaactaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa atttgccccc ctttttaag 180  
 ttccaatttt ttcttcccct tatttccaaa tttttatttt tttttttttc cccctaaatt 240  
 taattcattt gcccatcttt ttaaaacctt atttttgaaa aacctttttt ttaccaatt 300  
 ttattccttt tcaaaaaatt ccctttttcc caatttgtgt attttccaaa a 351

<210> 10945  
 <211> 434  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-058-Q1-K1-G9  
 <400> 10945

cccacgcgtc cgcaacagct atcgtcaaat ctacgacatt ccagcaatg actatgctag 60  
 taattatata gaggaacat caatacaact tccagaaata ggcaccagca atactattgt 120  
 tcaaggtcat gttgatgtca atgaacaccg atttgatgga ccaagaacaa tcgaagaaat 180

cgttcctgtt ccattggatg agatacagat ccatgaggat gtcccagggc aaccggggagc 240  
agccgatgag atagatgagg ttccatthttc tgacgctccg atcattgggtg ctccattcag 300  
actgatctca tttgttgcta ggtatgtcag cggcgctgat ttggtcaacc aaaaataact 360  
gtctgcatac caggaattca ggactnttat gtcaggagtt cttttttgat cccactgata 420  
attacgtcag tatic 434

<210> 10946

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-H11

<400> 10946

cccacgcgta cggtagcaca cttcgttcag tgaagatgag aagaagcaat ccaagcagct 60  
gaagagcagc tgctacctaa acaatgctgc ctgcaaactg aagttgaagg attacaagga 120  
agctgcgaag ctttgcacca aggttctgga actagacagc caaaatgtca aggctctcta 180  
caggaggggtg caagcttaca ttcaacttgc tgacctagag ctagcagagg ccgatatcaa 240  
aaaggcactg gaaatcgatc ctgacaacag ggatgtcaag ttggaatata agatcctgaa 300  
ggagaagatc aaggagtaca acatgaagga cgccaaattc tacagcaaca tggtcgccaa 360  
gatgacaaag tagcttttgg ggtggaggat gttgtggtga agcgaacgga ttaaaaacac 420  
cgatttctg 429

<210> 10947

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-058-Q1-K1-F6

<400> 10947

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cggtcgccgc gccaccctct ccatcggcaa cgtgctgcc ctccgcggga tccctgaggg 120  
tgccgtcgtc tgcaacgtcg agcaccacgt cggtgaccgc ggtgtcttcg ccagggcctc 180

tggggactac gccattgtga tcagccacaa ccctgacaac ggcacatcga ggattaagct 240  
gccctctggc gccagaaga ttgtcccag cagctgccgt gccatgattg ggcaggttgc 300  
tgggtggaggc aggactgaaa agccgatgct caaggctggt aacgcgtacc acaggtaccg 360  
tgtgaagagg aacagctggc ccaaggtgcg tgggtgtggcc atgaaccctg tggagcatcc 420  
ncacggagga ggtaaccacc 440

<210> 10948  
<211> 443  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-058-Q1-K1-E2  
<400> 10948

cgacaaaatc cctcaccctc gtgagtcctg acgccctcgc cctgtgctcg agttggtagg 60  
gttgtagcca tggcgtggag cgccgccgcc gtctccaggt tcgccgccgc ctccccaccc 120  
gcggcaccca tctccgtcag gcttggagcc gccgcttctc gtcctccctt gtccttctcc 180  
agtgggcgcc gacgccccgt ggccgcgtcc ctctcgacct ctgccaccgt tgtaaaggag 240  
gctgttcaga cagagaaggc accaccagca ctaggccctt attctcaggc catcaaagca 300  
aataatcttg tgtttgtttc tggagttctt ggcttgaatc ccgagaccag gaagtttata 360  
tctgaaaatg ttgaggagca aactgagcag gttatgaaaa acatgggcga gatattgaaa 420  
gctagtgggtg ctagctattc ttc 443

<210> 10949  
<211> 352  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-058-Q1-K1-E3  
<400> 10949

aagacgcgcg cgcagaagca cacctgctcg ggctggatta agaagacagc tttttcgggc 60  
gcgacgtggc ggaggagaag ggcgcgttgc agtcggcgag ggagtgggtg gtcgaccaca 120  
agctccgggc cgtcgggacg ctggggctca gcggcatcgt cggctccatc gcctacaact 180  
ggtccaagcc gggcatgaag accagcgtca agatcatcca cgccaggctg catgctcaag 240

ctctcacgct ggctgccttg gctgggtccg cgctggtgga gtactacgac caccagcaag 300  
 ggtcaggatc gaaagtccac caatttgcaa agcagtttct ttcattctgat ag 352

<210> 10950  
 <211> 398  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-058-Q1-K1-E4

<400> 10950

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 gcctgtgccc caagcgcattc gtgggtggacg cgcgcccaaca catgctgggc cgtctctcct 120  
 cgaacattgc caaagagctg ctcaatgggc agaaggtggt cgctcgtccgc tgcgaggaga 180  
 tctgcatgtc gggcggcctc gtccgtcaga agatgaagta cctccgcttc ctccgcaagc 240  
 ggatgaacac caagccgtcc cacgggcca tccacttccg cgcccccggc aagatcctgt 300  
 ggcgcaccat ccgcgggatg attccgcaca agaccaagag gggggaagcg gctctggcga 360  
 agtcaagac gtacgagggc gntccggcgg cgtacgac 398

<210> 10951  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-E6

<400> 10951

gtagcaacaa cagagcaaca atggcgacca agatattttc cctccttatg ctcccttgc 60  
 tttctgcatg tggtgctaac gcgacaattt tccctcaatg ctccacaagct cctatagctt 120  
 cccttcttcc ccatacctt ccatcaatga tagcttcagt atgtgaaaac ccagctcttc 180  
 agccctatag gtcaccaaa gcaatcgag caagcaacat acctttatca cccttggtgt 240  
 ttcaacaatc gccagcccta tctttgggtc agtcattggt acaaaccatc agggcacagc 300  
 agctgcagca actcgtgcta cctgtgatca accaagtagc tctggcaaac ctttctccct 360  
 actctcagca gcaacaattt cttccattca accaactgtc tacactgaac cctgctgctt 420  
 atttgcagca acaactatta ccat 444

<210> 10952  
 <211> 340  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-E7

<400> 10952

cgcaaattgc accaagaaat ccatcgagag gccgtcgaca ggggaattaa tggcgtcggg 60  
 gtctagcagc agccaccgcc gcctcactct cgcagccgcc gtctgtctct ccgtgtctgc 120  
 ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc cgcacaaccc 180  
 ggttcccagc ctgccgctgg tacgtgacca gccggacctg cggcatcggg ccgcgcctcc 240  
 cgtggccgga gctgaagagg agatgctgcc gggagctggc ggacatcccg gcgtactggc 300  
 ggtgcacggc gctgagcatc ctcattggacg gcgcgatccc 340

<210> 10953  
 <211> 423  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-E8

<400> 10953

atcagcagct tctgcttgct ttgtggggga aggagagaga gagagagaga gatctagggg 60  
 agaggctagt aggtggctct cgaacgaaga tgttggcggt gttcagcgct caggtgggtg 120  
 aggtgccggc cgcactgctg gcagctggca gccggacgcc gtgcgccacg acgaaggtct 180  
 ctcatctggt ggtcgcgctt cctggccgcc tccagacctg ccgtgtccgt gcagttcggc 240  
 caccacagtc acctcgcta cttccacacc aaccacgcgc tctacgccc caggtcgctt 300  
 gcggcccagg accaggtggt ctgactgac gagcgggtgc tgcacacct gagtcgtctg 360  
 aaccatgcac acgggctgtc atgcaagggc gccaacgagg tgctcctagc catggatgcc 420  
 tac 423

<210> 10954  
 <211> 419  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3059-058-Q1-K1-E9

<400> 10954

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gttcgtgagg ttctccgggg ttccgggttcg tgggtgagcg gatcgagatg gcggcgtcgg 120  
atgttgagta ccgctgcttc gtccggcgcc tcgcctgggc cacggacgac cactccctcc 180  
acaacgcctt cagcacctac ggcgaggtcc tcgagtcctaa gatcatctc gatcgggaga 240  
cgcagaggtc ccgcggttc ggcttcgtca ccttctccac ggaggaggcg atgcggaacg 300  
ccatcgaggg catgaacggc aaggagctgg acggccgcaa catcacgctc aacgaggccc 360  
agtcccgcgg cggccgtgga ggcggcgggc gtgggtacgg tgggtggcgt ggaggcggc 419

<210> 10955

<211> 110

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-F1

<400> 10955

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acattttag tgaagctgga cgtgcgagga atattgaatt ctcttcctac 110

<210> 10956

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-F10

<400> 10956

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tttgtcctgc acgtttccca ggctgccctt ggggaatcaa agaaaagtga cagtgcctta 120  
atgtatgtca aagttgatga caagaagctt gccattggaa cgctctctat cgacaaatac 180  
ccacagatac aattcgattt ggttctcaat aaagagtttg agctgtcaca cacatcgaaa 240  
actaccagtg tatttttctc tggttacaag gttgagcagc caattgaggg agatgaaatg 300  
gatcttgatt ctgacgatga acaggaggag ctaaacattc cagtaatcaa ggaaaatggc 360

aaaggtgatg ggaaggagga gcagaaaaat caagagaagg cagtagctgc tacagcttca 420  
aatcaagtc ttg 433

<210> 10957  
<211> 407  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-058-Q1-K1-F11  
<400> 10957

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gaaaagggaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
aaaaaaaaaa aaagaaagaa aatattaaaa aaaaaaatTT ttaaaaaaa aaaaaaaaaa 240  
aaaaaaatTT ttatataagg gaaaaaaaaa aaaaaaaaag gagggtatTT aaaaaaaagT 300  
tgaattgaaa aaaaaaaggt ttaacaaaat aaattaggtt aaaaaaaaaa aaatTTTTTT 360  
aaaaaaggga aaaaataaaa aaaggctaaa aaaagaaatt ttaaaaa 407

<210> 10958  
<211> 330  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-058-Q1-K1-F12  
<400> 10958

ctgaaatact gttaggacta gtttggttac tctatTTTT caagagattc atatTTTTgc 60  
aagtggaaat gaattaatTT tcttttgaga aaatagaaag aaatcccttg aaaaaaatga 120  
gattctctag gagccataaa accggagtaa attggaggag ctaaattcat cctTTTTatt 180  
caatTTtgaa taagaggaat ttagctcctc tggTTTTgtg gcttccaaac taaggttgta 240  
ttctctaaga tatTTgtgct gctgctgctg ccaatgtact gtaaatatct actaccatca 300  
aagttattga tgttctctaa gctatTTTT 330

<210> 10959  
<211> 452

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-058-Q1-K1-F2  
  
 <400> 10959  
  
 cccaacgaga agagcggcgg cgcgggcgga caaggagcag gcggaggaag agctgtgcga 60  
 agccagaatg ggtatctcac gcgactcgat gcacaagcgc cgtgccaccg gtggaaagca 120  
 gaaggcctgg aagaagaagc gaaagtatga gcttggtcgc cagccggcca acaccaagtt 180  
 gtcaagcaat aagacagtga ggaggggtccg tgttcgtgga ggtaacgtga agtggagggc 240  
 tcttcgcctt gatactggta actactcatg gggaagtga gctgttacc gcaagaccgc 300  
 tatcctcgac gtggtctaca atgcatcaaa caatgagctt gtgaggacac aaacccttgt 360  
 gaagagtgcc attgtgcaag ttgatgctgc ccattcaag cagtggtagc tcaactacta 420  
 tggagttgac attggtagga agaagaaaac cc 452

<210> 10960  
 <211> 293  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-058-Q1-K1-F3  
  
 <400> 10960  
  
 caagcaccga aatcgacgaa ttcttgcccc ctctgcgac tcgacgcgca ccgatgcggg 60  
 cgatgtggtc ggcgggtaat ggtatgctgc gggcacggct gcgcggggca gcgcgcgttc 120  
 gcggcgggcg cggcgaaggg gccggggcgt ggacgacccc caggtcacga ggagcgcccc 180  
 aaggggtacc tcttcaaccg gccgcgcgcg cctccggggg aatctcgcaa gtgggaggat 240  
 tgggagctgc cctgctaccg ggacctcctt cctcacgcgc gtcacccctg gcg 293

<210> 10961  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-058-Q1-K1-F4  
  
 <400> 10961  
  
 ctcagtatat atgcgaaaat gatggagttt ttaagttaag tatctttatg gcctcttggg 60

gttcgggggtg aactttactg taagttcttt ttcttaaacc accaccaatt ttcaaattgg 120  
 tcacctcttc cttctttccc ttatgacatt gaggcctatg tttatgttcc tgaagccgat 180  
 atcctgtcag tcttagatgt gcctcctggg aaaatgggac gagttattgg cagaaagggg 240  
 tcaacgataa tggctgtgaa agaatgttgc aagggtgaaa tacatattgg tggtgctaag 300  
 gggccttcag acaggggtgtt catcattgga ccagagaagg atgtcaggaa agctgaggcc 360  
 atctttcgag gccgaatgct ggagttctag agatgttacc ctttgcgata caggtttcaa 420  
 ctgctttata ttttgaacgt aaaa 444

<210> 10962

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-F5

<400> 10962

caaacagaag tgggtgtagtg ctcttaacaa ctgcaccttt gatggtggga tcgagtatga 60  
 accacaatgt gacagtatga gcaacatggt taataatggt tctgataagt tgacttctct 120  
 ttgtgcaatt gctgttgctg tggataaaca gactgaagat tggagggaaa aagaattaga 180  
 tgaggatgca cgggtgtttcc aaaggccacc tgcttgcac ataaaaataca gtgatatttt 240  
 gaatcatgca gcaaagggtt atacacctta gaatctacaa actgtttgag acagattttc 300  
 ttgatgggtg tggagccaca aaattcaaag agcttccgtg tcaagataac aatacatatc 360

<210> 10963

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-E12

<400> 10963

aacataaaaa gtggaatata gtagacacta acagaggacc aacgggtctac aagatccaag 60  
 ctctcggtat cctgcttgct atgtctgcat gtgttgataa cgcgaccttt attcattaaa 120  
 gctgacaagc ttctataact tccctacttg caaaatacct tccataaccg actgattcag 180  
 catgcgaaaa atcagctttt cagcactata cgctacaaca agcagtcgca gaacgaaaga 240

tatctttatc acccttgcag cctgaacaat caacaggact atctttggag cagtcatatg 300  
 ttacaaacca tcatggcaca gtacctgcag caactcctgc tacactgtga tcaaccaata 360  
 agctctgtca tacctatctc cctactctca ttatcaacaa tttcttcca 409

<210> 10964  
 <211> 419  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-034-Q1-K1-E3  
  
 <400> 10964

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 ggaccagacg tggaatttgt tctgttagca actgatgggc tttgggatta cataaaaagc 120  
 tctgaagctg tagcttttgt cagagaacaa ctccgtcagc atgggtgatgt ccagttggcc 180  
 tgcgaggcac ttggtcagaa agctctggat caacgggtccc aagacaatat tagcatagtc 240  
 atagctgact tggggaggac aaactggaag gcgttgcccc atgaaaggcc gaacttggtc 300  
 ttggaactaa gtcaagcagt cgcgacttgt aggggtgtct caataagaat ttgggtctcg 360  
 tcgttccttg ggttacagta gaactagcta ctccgtncgg atgtgtatat tacctactg 419

<210> 10965  
 <211> 442  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-034-Q1-K1-E4  
  
 <400> 10965

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 atgtgtgatt atgctgtggg gctaagtcgc caactaaatg gatccattat accatctgaa 120  
 cgaccaaacc atatgatgat ggaagtgtgg aatccccttg gagttgtggg tggtataacg 180  
 gcatttaatt tcccttgtgc tgtgcttggg ttggaatgctt gcattgcttt ggtctgtgga 240  
 aattgtgtcg tctggaaagg tgcaccaaca actccactga tcaactattgc aatgacaaaa 300  
 atagtggcta gtgtattgga gaagaacaac ttgccaggcg caattttttac atctttttgt 360

gggggcactg aaattggtca agcaattgcc cttgacatta ggataccttt ggtttcattc 420  
actggaagta caagggtg tc 442

<210> 10966  
<211> 326  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-034-Q1-K1-E5  
  
<400> 10966

cggacgcgtg ggaaaaaaaa aaaaaattaa aaaaaaaaaa aaaaaaaaaa aaaaaaaga 60  
aaaaacaaaa aatttaaaaa ataactaact aaaaaaaca tgcacacctc ttcttaattt 120  
ttcttttttc cttcctcatt cttactacct cttagttttt atataacgtt cttacttta 180  
aattccctgg cttacttta ctaacttggc ttctggtaaa tccttctttt tccccctttt 240  
attctccttg caacgcaccc acctttcttc atttcaatta ttgcccaga ttccttaacc 300  
attcgactt tccatcattt gcccaa 326

<210> 10967  
<211> 427  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-034-Q1-K1-E7  
  
<400> 10967

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gcgcctccac caccatgtcg tcgatgatga acgcgctggc gaactggctg gcgaacccgc 120  
gccgcaaccg gctggcgcg ctcacatgc acgccgtctc ctgcgcctc aggaaatacg 180  
gactgaggta cgacgacctc tacgacctc atttcgatct ggacatcaag gaggcgctcg 240  
gtaggctgcc tagggagggtg gtcgacgccc gcatccagcg cctcaagcgt gccatggacc 300  
tctccatgaa gcaccagtac ctcccgagg acctccaggc acagcagggt ccattcagag 360  
gatatttggg tgacatgttg gcgttggtga aaaaggaaag cgccgagcgt cagtcactgg 420  
gagccct 427

<210> 10968

<211> 444  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-034-Q1-K1-E8

<400> 10968

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tcacttgctc ctagtgccat tattccacag ttctctcctc cagttacttc aatgggcttc 120  
gaacacccag ctgtgcaagc ctacaggcta caacaagcgc ttgcggcgag cgtcttataa 180  
caaccaattg cccaattaca acaacaatcc ttggcacatc taaccataca aaccatcgca 240  
acgcaacagc aacaacaatt tctaccagca ctaagccaac tagctgtggt gaaccctgtc 300  
gcctacttgc aacagcagtt gcttgcattc aaccacttgc ctctggcaaa catagttgca 360  
taccaacaac aacaacaatt gcaacagttt ctaccagcgc tcagtcaact agccatggtg 420  
aaccctgccc nctacctaca acag 444

<210> 10969  
<211> 414  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-E9

<400> 10969

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gagcggcgag ggtggtgacg agaccaaaga tctctcctc cttgatgtgg ctccctcac 120  
cctgggtatc gagaccgtcg gtggagtcac gaccaagttg atcccgagga aactgtcat 180  
cccgaaccaag aagtcgcagg tggtcaccac ctaccaggac cagcagacca ctgtctccat 240  
ccaggtcttt gagggtgagc gcagtatgac caaggactgc cgtcttctcg gcaagttcga 300  
cctcaacggc attgcgccag ctccaagggg cacaccccag atcgaggtga ccttcgaggt 360  
ggacgccaac ggtatcctaa acgtgaaggc ggaggacaag ggcacgggca agtc 414

<210> 10970  
<211> 397  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F1

<400> 10970

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ggatgggtcag gagcttgagg acaaccagct gatagctgat attagcagga cggatgatgc 120  
tgagattcat ttattcatcc gcaaaccagc aaaggatatg acacaacaag ttgatggaga 180  
tactttgggtt acagttgtca atccacaggg gaaaggcaac ctgcaaaatg aagctggctc 240  
agtgaactcc gcaaactcag ttgtggatag gcctgtccat gttgaaccaa tagttaaccg 300  
aaaagccaag ctgtcatgtg aagtgatgaa tatgataaat tcaaccatag ctggactgga 360  
gaaagggcac ctgactgtga tgtcagctga acgttca 397

<210> 10971

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F10

<400> 10971

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agcggggtcc taccaacaac acatcattgg tgggtgccctc ttttagatag cttattagct 120  
gcaattcaat aatcaagtta tctggatgat gtatgtggcc aaccagaaat aagaagctac 180  
atttacagat tctagaggca aaactggata aaaacgatag actgctggat ttcacacaca 240  
aaccttgatc tgcattgtgtt g 261

<210> 10972

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F11

<400> 10972

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ccgacatctg atatcagggg tcagctactg ccattctatg gaaatttgct accgtgatct 120  
taaacttgag aacaccctcc ttgatgggag tccaacacct cgtgtgaaaa tttgcgactt 180



tggttactca aagtctgctt tgctgcattc caaaccacaa tcaacagttg gaactccagc 240  
 atacatagcc cccgaggttc tttccagaaa agagtatgat ggaaaggtag cagacgtctg 300  
 gtcctgtggt gtcacgctgt acgtgatgct cgtgggatca tatccatttg aagatcctga 360  
 ggatccaagg aacttccgga aaacgatcag cagaattctt ggcgtgcaat ac 412

<210> 10973  
 <211> 410  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F12

<400> 10973

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 ttgtggtcag tcaaagatcc aacctccgga ctgcgcatgg ggcgggcgat cctcaacgat 120  
 gctctgcgca cgatgggtcaa cgcagaccgg cgggcggaacg cgtcggcgct tctccgaccc 180  
 atctccggcg tcatgggtctc cttcctcaac atcatgaagt accgagggta tatcaaaaaa 240  
 tttgaggtca ttgatgagaa tagagctggg aaaattagag tggagcttga tggacgtctt 300  
 aaagattgca aagctctcac ctacaggcaa gacctcaaag ctaatgagat agaacgatac 360  
 agagttagga tgctcccaac acgccagtgg ggctatgttg tgattactac 410

<210> 10974  
 <211> 446  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F2

<400> 10974

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 tccaaccggg ccgggccaac gtctctaaag cggagctcaa ggagaggctg gctaagatgt 180  
 acgaagtgaag agatcccaac tgcattctcg tcttcaagtt ccgcacccac ttcggaggcg 240  
 gcaagtctac cggattcggg ctcatctacg acaacgtcga ctacgccaag aagttcgagc 300  
 ccaagtacag gcttatcagg aacggctctg ctaccaaggt ggagaagtcg cgcaagcaga 360

tgaaggagag gaagaacagg gcgaagaaga tccgcggtgt gaagaagaca aaggctgggg 420  
acgccaagaa gaaatgagcc aggttt 446

<210> 10975  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F3

<400> 10975

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atggaggggg ctgatggcaa gcaagagtca gaaactacat gtataatcaa agttcctaaa 120  
gagcctgcca tcattatcaa tggcgttcca gattttcctt ttgattgcac aactggttct 180  
caatctgcag taaaaaatga cgcagaatct catgttgatc ctcgttttgg tgaatgggta 240  
gaagggagga aagtgcgtaa gctttttgga gacacatatt tcgtcgggaa agtggccaag 300  
tatgacattg aaagcaactg gtacaccgtc atttatgatg atggagacca ggaagatctt 360  
gaatggcggtg aacttgagaa agttctactg ccattggaca taactgttcc acttaaaaac 420  
actgttatcg 430

<210> 10976  
<211> 438  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F4

<400> 10976

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ggttaacaag atggtgcgtc gtcgcaacct ttcggtgggtg gagttcaaca gtgactccga 120  
cgaaatccaa gaggaatcgc gtgttccttc tctcgcgctt cggcgtttct tctccaagtg 180  
aggacgaggc tctggccgtt tggaaagggg aggaccctcg atgcccttgc aacctggggc 240  
ccaagggcgt caaaagggtg gcgccactcg tccccgtcga agcaccttct tcgctgtata 300  
cgctccttgc caggaggagg atggagcttt tgacgacgag gtcgaacctt cgatcatccga 360  
cactcccctc gtcatcggac tccacatgca tccggcgact gtgtcccatg ggccgaatga 420

accttcagtc gacttctc

438

<210> 10977

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F5

<400> 10977

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atcatcataa acatcttcag gatcctcatc tacaacaaca tcattcacca aggacacat 120  
catacaaac agacacacac atcatcacta tcagcagtg cacaacaac tacatgttac 180  
catgcatca caaaaacatt aacaacaaca tgaagtacat gtacagacaa caacaacaat 240  
gactgtagca tcagcagaac atacaacaac ggcaccagct acaacatcat gaatgtgaaa 300  
gtcatcaact catgaccatc aatctacagg ccatgtgcaa caatacgaac agagccatgt 360  
acatcactaa gacagagcca tgagcaacta catcgacaac aatatcagcg tcatgacaag 420  
cacgaacatc cagcagatgc ttatgaata 449

<210> 10978

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-D1

<400> 10978

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acatagagaa ggagctacag aaaaacgggt tcaagcccat gacaaatact gccaaacgac 120  
tagcagctgc ccagatcaat ggcgtaaaac ccaaggctaa gcccaagaag aagcagcgtg 180  
agatcacaaa acggaccaag ctcacgaatg cccatctgcc tgagctgttc cagaatctta 240  
acacttaaac gtgtacagt atctgacgac ggaagatggg tcattatact cctatttatt 300  
gctacgttgc gtgtatgtgt tatgcagcta tgctgtatgg cttatgggta tgagcgccac 360  
aaatttgctt gacaagattc tggatgatat acttatgcat tctgacataa taggaagcaa 420  
aacctcaaga ttt 433

<210> 10979  
 <211> 298  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-D10

<400> 10979

cagaatcatt tattcaaadc ctactttatt gtatggaact actataattg gaaccaaggt 60  
 ctaagaatga aaagttaaag tctctgatcc atgaaccgtt gcagtggaaa tgtggtcgtg 120  
 gacagtataa agtacacaga tgtgggccac atacctgag atactgatga taagacagtg 180  
 cccaaggata gtgtgactcc aacgtttgct gctgaggagc ttttcataaa taatgccaga 240  
 tgggatggag ttgcctatct tatgaaagct gggaaagctt tgcacacaaa acgagctg 298

<210> 10980  
 <211> 328  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-D12

<400> 10980

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 agggcggcag cggcgtgcga tccaagccg ctggtggtgt gcgatccggc gttcatggac 120  
 ggagcgaaac ccgcggcagc atgctgctgc accctgcgtg cgcacgacgc atgcttgtgc 180  
 gtgtacgcca aagaccccaa gtttgcaaaa tacatcatca accccaacac cgacaaaacc 240  
 tttacctcgt gcggcatagc catccgcaaa tgctaagcaa gcgctctgcg tcgtcgttcc 300  
 gcttgctctt gctcttgtgt gtaacata 328

<210> 10981  
 <211> 168  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-D2

<400> 10981

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gcaatgcaag caaagatctg atcaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaagagga accaaaaaca ataataac 168

<210> 10982  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-D3

<400> 10982

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 ggaccgtaga ctacgcgact gcgaaggatg gataagggga tggccgggat cggaccgatc 180  
 aggcaggact gggagccggt cgttgtgcgg aagaaggcac ccaccggcgt cgccaagaag 240  
 gatgagaagg ccgtcaacgc cgcgcgccgc gccggtgctg agatcgatac catgaagaag 300  
 tacaacgctg gtacgaacaa ggccggcatcc agcgggtacat ccctcaacac caagcgcctc 360  
 gacgacgaca ccgaatacct cgcccatgag cgagttccaa gtgatctgaa gaagaatctc 420  
 atgcatgcaa ggctcgat 438

<210> 10983  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-034-Q1-K1-D4

<400> 10983

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 tgcattcaca gaaacctatg aaggagagagg gcatgggtgg gcacgtggac aggatcctca 120  
 agcatggcgt gttcctcaaa tccggacccg tggagagcat cttcctggct gagaagtcga 180  
 tgagtaatta caagtacata agtggggaga atgcatggtt catgaacgac cactcgaagc 240  
 tggagaaaga caccgncgtg cgcttcaagg tcctaggggt cgcgtggatg gaggctgacc 300  
 gccaatcca gtccttgct acgatcgctg gtgacttctt tgggcccgtg tgaactgctt 360

ccacagggtca aacaggttct aatgtacatt gctcgttaga tgggtggatgg atggttggat 420  
ctgatgtgta gaatta 436

<210> 10984  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-D6

<400> 10984

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agatattgtt gtgaagattg gtctccggaa aggatccaaa tcttttgagg aagcacgtgc 120  
cgctggattc accgaagaga gcggaacctt gggcgatatt tgggaaaccg tctccggcag 180  
cgatcttgctg ttgctgctga tatccgatgc tgcacaggct gacaactatg agaagatctt 240  
ctctcacatg aaaccaaaca gtatccttgg tttatctcat ggatttcttc tgggacattt 300  
gcaatcactc ggactcgatt tcccaaagaa catcagtgtg attgctgtat gccccaaagg 360  
aatgggtcca tccgtccgca ggctttatgt tcagggcatg gaagtcaatg gcgctggcat 420  
caactctagc 430

<210> 10985  
<211> 419  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-D7

<400> 10985

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atacccatgg caaaaactact cttgggtttg ctcttgccc ttgctattct agggacaaca 120  
tcggctgctg gttgtgtaca agacgcggaa gacatgaaac gagagtgcaa gcagtttgag 180  
ctattcccag cgaacccaaa gttgccaccg tcggcagcat gttgtgctgt gtggaagagg 240  
gcagatgttc catgcctatg caaatatgtt aacaaggaag tagagaaggt atggtgcatg 300  
gagaagggtg tgtacgtcgc caactattgt aagaagccgt ttcaacctgg ctacaagtgc 360  
gggagttata cagttcctct tagtatgtaa aaggaagtgg ttgggacatg tgggtactct 419

<210> 10986  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-D8

<400> 10986

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agcaacgact taacaacaat ggctaccaag atattagccc tccttgcgct tcttgccctt  120
tttgtgagcg caacaaatgc gttcattatt ccacaatgct cacttgctcc tagtgccatt  180
ataccacagt tcctccgacc agttacttca atgggcttcg aacacctagc tgtgcaagcc  240
tacaggctac aacaagcgct tgcggcgagc gtcttacaac aaccaattaa ccaattgcaa  300
caacaatcct tggcacatct aaccatacaa accatcgcaa cacaacagca acaacagttc  360
ctaccagcac tgagccaact agatgtgggtg aaccctgtcg cctacttgca acagcagggtg  420
cttgcatc                                     428
  
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<210> 10987  
 <211> 399  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-D9

<400> 10987

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cccctctgct tatttccagc agcaaatact actaccatct ggccagctag ctacaacaag  180
ccccgcttcc ttcttgacac aacaacaatt gcttccgttc taccagcagt ttgtggctaa  240
ccccgcaacc cttttacaac tgcaacagtt gctgcccttt gtccaacttg ctttgacaaa  300
cccagcagcc ttctaccaac aacacatcat tggcggtgcc ctctttttaga ttgcttatta  360
gttgtcattc aataatgaag ttttttggct gatgtatgt                                     399
  
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<210> 10988  
 <211> 401  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-E11

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tggtgagata ctgcatggag tctgacccat cctcgagaat gctagtcttt cagtaccac 180

caaaagggac actgtacgag catctgcacg atggagatag ctggcagcta tcttggccta 240

cactgatgaa atcagcactc gacatatata gggctatcag atacttgac actgagctgc 300

aacctccgtc tgcagatgct gcactgacgt ctagttcagt gtacctaact gaagacttct 360

actcaaagat aatcgattgc gacaggagga gatatatg g 401

<210> 10989

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-E12

<400> 10989

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gagtattatt tcattccata gtgccggcctt ttcgcaacgt cattgatgtg cctcttgtgg 180

ttagaggatt acgcaaactc agatctgagg tgaggaagga actaggaatt gaggagaatg 240

ctaaggtgct cgtttttaat tttgggggtc agccagcagg atggaaactg aagcaagaat 300

gtctccctga tggttggatt tgtttggtct gtggtgcctc tgattctcaa gatgttccac 360

cgaacttcat taagcttgcg aaagatgctt acacacctga tgttatggca gcac 415

<210> 10990

<211> 437

<212> DNA

<213> Zea mays

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<400> 10990



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 cctttgggaa gatgctcgtg ataggctctg agccaccctt caagctgaag ggcctttggc 180  
 tcttccgtgg ccaggatggt cccaagtttg taatggacga ggtctatgac atggagctct 240  
 acgagtggac caaggtggac atctctgatg agggccagaa ggagcgtgtc aatgcgatga 300  
 ttgaggacca ggagcccttt gagggcgagg ccttgcttga cgcgaaatgc ttcaagtgag 360  
 tgtgcttgcc tggagacaga actgttttagc ccttgaaatt gcctatggaa gagtttgccc 420  
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<210> 10991  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-034-Q1-K1-B2  
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 gcaccaagcc agtggaggac aagatcatgg aggtcgcttc gtcgagaag ttcctgcagg 180  
 agcgcaccaa ggtcgccggc ggcaaggctg gcaacctcgg cgactccgtc accatctctc 240  
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 acttgaccaa gaagtacttg aagaagcaca acgtgcggga ttggctacgc gtggttgctg 360  
 ccaacaagga ccgaaacgtc tatgagctcc gctacttcaa cattgctgag aacgagggcg 420  
 aggaagaaga tta 433

<210> 10992  
 <211> 400  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-034-Q1-K1-B3  
 <400> 10992

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gttttaattt cttttttttt gcccccaaaa caaatcaat tgtttcaatt atatcgactc 120  
 taccaaaaca tttgccttca cgatataaaa ataactaat tgtatttcct aataacccat 180  
 taagtcttct aaaaacttga tgggaacaca tctgagactc cggccaccat tttatggaaa 240  
 gagaccgcta aaaccatttc ttataacaac ccattgtgca aaacgtccct taaaaacttg 300  
 accaagaact acttgtttta acgcaccaag ctttaattacc tactcatgcg aactgacaac 360  
 ttttacatag gcgtccataa actcaattac ttggacattg 400

<210> 10993  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-034-Q1-K1-B4

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 agccaggcga tcttgttgca cacataaagt tcactgtgct gctgatgccc aatggatcag 180  
 ataagataac atcacatcct ctacaggagt taaagcccac caaatccatt gaagacaatg 240  
 cagagataaa ggcattggctt gctttgggga cgaaatcaaa gaagaagggt ggtgggaaga 300  
 agaagaaagg caagaaagga gatgcagcag aagcagatcc catggaggag gcgacaaacg 360  
 gtgctacaag ccaagaataa ttctgatttt tggaattact gccaccagct tttttcttgg 420  
 ttcttcgctg catctg 436

<210> 10994  
 <211> 434  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-034-Q1-K1-B5

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 ccaattcttc aaccctacag gatccaacag gcaatcacag caggcatctt acctttatca 180

cccttggtcc tccaacaatc atcagcccta ttacatcaat tacctttggt gcattttattg 240  
gcacaaaaca tcagggcaca acaactacaa caactcgtgc tagcaaacct tgctgcctac 300  
gctcagcaac agcagttacc tttggtgcaa ttgttggcac aaaacatcag ggcacaacaa 360  
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ttcaaccaac tagc 434

<210> 10995  
<211> 345  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-B8

<400> 10995

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aaaaaaaaaaa aaataaaaaa aaataaaaaa caaaaaaaac aaaaataaaaa aagggggccgc 120  
cctttttaag gttccaatct ttctaacgca attgttcaaa gtcttaattt tcctattggt 180  
gaacctaatt tcaattccct ggtccttttt taaaaacttg gttactggaa aaaccttggc 240  
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aaggccctac ccgatctcct ttacaacaag tatcccatcc tgaat 345

<210> 10996  
<211> 378  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-C10

<400> 10996

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acaacttgct ctagcaaacc ttgtgccta ctctcagcaa cagcagtttc ttccattcaa 180  
ccaactagct gcattgaact ctgcttctta tttgcaacaa caacaactac cattcagcca 240  
gctatctgct gcctaccctc agcaatttct tccattcaac caactgacag cattgaactc 300  
tcctgcttat ttacagcagc aacaactact accattcagc cagctagctg gtgtgagccc 360

tggtacctta ttgacaca 378

<210> 10997  
<211> 304  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-C11

<400> 10997

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acaactaaca acatctgggtg ctagacaaac cttgatgact actctcatca acatcagtat 180  
cttacattca tccaactaca tgcattgaac tccagcttct tatatgcacc aacagcaact 240  
aacatacagc cagctacatg attcctaccg tcagcaattc ctatcattct accaactgac 300  
agca 304

<210> 10998  
<211> 387  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-034-Q1-K1-C12

<400> 10998

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cagccaagtt tctccttagc aagctgaagg accttcaatt ttttgttggg gagagcatga 120  
aggacgaagc gtccgtggta ttgcctatt acaaggatgg tgccactaat ccgacattcc 180  
tctatttctc tcatgggtctt aaggagatca agtgctagat tagttaccca tgttgggtac 240  
tatatatgtt ctattgttat agccacaact atagctgccc tgcttgaact gaactcaggt 300  
ttttttaaga aaaaactgtc caagattgga ttgcttggtta aagctaaata ttgntattga 360  
cgtgttattg cttagttgtc attngtc 387

<210> 10999  
<211> 378  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-C2

<400> 10999

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tcgtcgtgtg cctggctctg tcagctgccg gcgcctctgc aatgcagatg cctgccccct 120  
gcgcggggct tgcaggcttg tacggcgctg gcgcggcct gacgacgatg atggcgccg 180  
gcgggctgta cccctacgag gagtacctga ggcagccgca gtgcagcccg ctggcgggcg 240  
cgccctacta cgccgggtgt gggcagccga gcgccatgtt ccagccgctc cggcaacagt 300  
gctgccagca gcagatgagg atgatggacg tgcagtcctg cgcgacgag ctgcagatga 360  
tgatgcaact tgagcgtg 378

<210> 11000

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-C4

<400> 11000

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aacctcgacg acctgcagat gccgggggat gccgccgatt tctacggctc catgctcgctc 120  
tcgccgatgg ccgccaagat ggagccggac ggcggcttcc cttctctctg agatccttcg 180  
gcgactccgg ggaccggatg cagcgcaacg caaactgtgt atagttcaga ttttcttcat 240  
ggaaccaaca acaacaaaaa aaaagttctt gctaatatct tgttctagtg gtgtagtgca 300  
gaagtagcag caggcatgat tgaagttcca ttgtagtact gatgttcacg gccacttgat 360  
ctgtgacaag tgacggcatt ctttcgtttc ttggctgcaa attcttcggt gtccagaata 420  
taatttcaga tgggtaatgc caattc 446

<210> 11001

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-C5

<400> 11001

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ctgccctggg atgaaaggct gatagttgga ctatccaaca gggaaataaa gggtttactac 120  
aaggcatcat gactctttgc ttcaacccca tgtatacatt gtgaatagtt cagtatacag 180  
taaacgtgag atagaggatt ggaatcccca ggactagaat acatcaaaaag tacaatccgt 240  
gttttttttct ttaaacaaca ggggcggttcg tgtccctcc ttttttttat attttctaca 300  
aagggatagt atacaagggg cctgtttggg tcagcttttt tctgaccagc ttttctgaaa 360  
atctggctgt ggggagaatc tggctgtggg agagaatctg ggtatcatta cgattacctg 420  
tggaggaaga taaagt 436

<210> 11002  
<211> 433  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-034-Q1-K1-C6

<400> 11002

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acaagacgct caaggaggag ctgctcaccg acccgccctt cgagttcacc gaggagtcac 120  
gccagtggat cgaccgcatg gttgactaca atgtactcgg aggcaagtgt aaccgtgggc 180  
tctctgtggg cgacagctac aagctgctca agggcgctga tgctctgggc gaggaggaaa 240  
cgttccttgc ttgcaccctc ggctgggtgca ttgaatggct tcaggctttc tntcttgtgc 300  
ttgatgatat catggatgac tctcacactc gtcgcggcca gccttgctgg ttcagggtgc 360  
ctcaggttgg cttaattgct gcgaatgacg ggatcatcct tcgcaaccat atctcacgga 420  
tcccttcgcg cca 433

<210> 11003  
<211> 325  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-C7

<400> 11003

caattaaatg gttgcattca aaaaaaaaaa aaaaaaaaaa aaaaaaaactt aaagcgaggg 60  
 taaaaaaaaa aaaaaaaaaa aacaaataaa aaacataaac aaaaaaaaaag gccgaccaat 120  
 cacgcggatc caatccttcc ttatcgctta gtgcatacgt cctagctctc atttgttacc 180  
 gcctactttc tgtgaactac aggtactttc tcatcaaggg cactgttaat cccctggagt 240  
 atccccacctt acttgctttc acgctaatacc ccttcattcc atctgtttta atatctaata 300  
 ggccccctccc ttttatcatt cctaa 325

<210> 11004  
 <211> 355  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-034-Q1-K1-B11

<400> 11004  
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 gagctatgaa tgagatcaat gcagctgcta ggctgagggt ggctgccagc gagaaagctg 120  
 atgcagagaa gatactgcag atcaagagag ccgaagggtga tgcagaatcc aagtacttgg 180  
 cgggtctggg tatcgcaaga cagcgccagg ctatagtga tgggctcaga gacagtgttc 240  
 ttgctttctc tgagaatgtg cctggggacct ctgcaaagga tgtcatggac atggttctgg 300  
 ttaccacagta cttcgacacc atgaatgaca ttggggcctc gtccaagtcc tggtc 355

<210> 11005  
 <211> 439  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-033-Q1-K1-H6

<400> 11005  
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 cggaacgcca tcgagggcat gaacggcaag gagctggacg gccgcaacat caccgtcaac 180  
 gagggccagt cccgcggcgg ccgtggaggc ggcggcggcg gctacgggtg tggccgtgga 240  
 ggcggcggct acggcggtgg cgggcgccgt gatggcgggc gcggtctacg cggtggcggc 300

ggcggctacg gtggcggcgg tggctacggt ggtggtggtg gcggtacg cgggtggcaac 360  
 cgtggcggcg gctacggcaa ctncgacggg aactggaaga actgagcggg ggggcccgcg 420  
 ctggcaagtt atcctgttc 439

<210> 11006

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-H7

<400> 11006

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 acaggcttaa aactcctgtt aataatgcct taagagatgc caagttgtct gtcagtgatc 120  
 tagatgaagt tattcttgtg ggtggatcca cccgaatccc tgcagttcaa gaacttgtga 180  
 ggaagcttac tgacaaagat cccaatgtta cgggtcaaccc tgatgaggtt gtatctcttg 240  
 gggcatctgt gcacgggtggc gttttggcac gagacgtgaa agacgtagtt cttctggatg 300  
 ttactccatt atctcttgtt tcggagacat tggcaggagt gatgacaa 348

<210> 11007

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-H9

<400> 11007

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 tgggtggactc acgagtggga gaaacatggc acctgctctg ccctgcggg tcaatgatgaa 120  
 ttacagtatt tcacccttgc ccttgacctc tactacaagt atgacgttac agaaatgctg 180  
 tcacgtggag ggatacatgt ttcaaatggc aaagaatatg cactgaacga tgtcatcgat 240  
 accatcgaac atgcttatgg gggatcacca caaattgctt gcctgacggg ctcaatcgaa 300  
 gaactaatgt tactcatcga cagaaaaatg aacctcttg 340

<210> 11008

<211> 362



<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-034-Q1-K1-A1  
  
 <400> 11008  
  
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 tcgagcagca gccaccgccg cctcatcctc gcagccgccg tcttgccttc cgtgctcgcg 120  
 gctgccagcg ccagcgccgg gacctcctgc gtgccggggg gggccatccc gcacaacccg 180  
 ctcccagagt gccgctggta cgtgaccagc cggacctgcg gcatcggggc gcgcctcccg 240  
 tggccggagc tgaagaggag atgctgccgg gagctggcgg acatcccggc gtactgccgg 300  
 tgcacggcgc tgagcatcct catggacggc gcgatcccgc cgggcccgga cgcgcagctg 360  
 ga 362

<210> 11009  
 <211> 391  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-034-Q1-K1-A12  
  
 <400> 11009  
  
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 aagatattaa gcctcgttgc acttattgcc gttttagaga gctcatcaaa tgcgttcatt 120  
 attccacagt gtcacttgc tcctagtgcc attattacac agttcctttt atcagttact 180  
 tcaatgggct tctaacattc agccgtgtaa gccttctgac tacatctagc gctttcagag 240  
 agcgccttac aacaaccaat tgcccaattg caacaacaat ccttggcaca tctaacccta 300  
 caaaccattg caacgcaaca acatcaacat caacagtttc tgccattact gagccatcta 360  
 cccgtgggtga accatgtcac ctacttgcaa c 391

<210> 11010  
 <211> 396  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-034-Q1-K1-A2  
  
 <400> 11010

attgtcccaa caatggcacc cacaatattg gggttcctta tgcgctttgt tctgcctgca 60  
 ggtcctgcta cgcagccat tatccacac tgctcacaag ctctatagc tgcctttata 120  
 tctccatacc tttcaccatc ggtgtctcca gtatgtgaaa acccatttct tcaaccatac 180  
 aggatccaac aggcgatccc agcaggcatc ttaccttgat caccatcggt actacaacaa 240  
 ccgttagacc tattacagga gttacctctg gagcatccgt tggcacataa catgacggca 300  
 cacctactac aacaacttgt gctacgacac ctgtctgcct actctgatga acagtatcag 360  
 cttccattca accaactagc tgcattgaac tctgct 396

<210> 11011  
 <211> 445  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-034-Q1-K1-A3  
 <400> 11011

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 gtcgttgaca ggggaatcaa tggcgtcgtc gggtagcanc agccaccgcc gcctcatcct 120  
 cgcagccgcc ggctgtctct ccgtgctcgc ggctgccagc gccagcgcgc ggacctcctg 180  
 cgtgccgggg tgggccatcc cgcacaaccc gctcccagc tgcgctggt acgtgaccag 240  
 ccggacctgc ggcacgggc cgcgcctccc gtggacggag ctgaagagga gatgctgccg 300  
 ggagctggcg gacatcccgg cgtactgccg gtgcacggcg ctgagcatcc tcatggacgg 360  
 cgcgatcccg ccgggcccg acgcgcagct ggagggccgc ctagaggacc tgccgggctg 420  
 cccgcgggag gtgcagagg gattc 445

<210> 11012  
 <211> 419  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-034-Q1-K1-A5  
 <400> 11012

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caatgccaaag cttttataag gaaccaaccc ctgccaaagg tgaattgaaa aagatccccc 120  
caaccagagc taaatcacca aagcttggtc ggtctaaaaa caagtccata tcagagactg 180  
aagaaaatac tactacggac caacctgccc gtctgagcct tgacgaaaag gttttctcaa 240  
acgggtgtgaa aaaaccaacc ccgtcgagtt cagcaaagaa gccccagaga aagtcactcc 300  
ccaggctgcc atctgaagaa acttgctcgc ttgatgccac ctcaaggcag ctgaagaaca 360  
acaaactgga tgaagttaat gctcaggaga caggatcagc tacagggcag gtacaagga 419

<210> 11013  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-A7

<400> 11013

cggacgcgtg ggcggacgcg tgggccggca cgtccactcg caaggcattc tttgctggtc 60  
ttcaaagctg ggtgtcaaga aaatttatga ctggatgtgt agttcttttg ccaattgctg 120  
tcacattctt catcacttgg tggtttatcc aatttggtga tggttttttt cagccactc 180  
tatgcaaaac tggggtttga catattcggc cttgggttct tgacctccct ggtgtttata 240  
cttcttggtg gaatctttgt gtcttcttgg gtgggttcaa cggctctctg ggttgagaa 300  
tggtttataa agaaaatgcc ctttgtaagg cacatatact ctgcatcaa gcaagttagc 360  
actgctgttt caccagatca aaatacaaca gcattcaaag aagtagcaat cattagtcac 420  
ccccgtgttg gtgaat 436

<210> 11014  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-A8

<400> 11014

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ttccttatgc tccttggtct ttctgcaagt gctgctaccg caaccatttt ccacaaatgc 120  
tcacaagctc ctatagcttc ctttcttccc ccatacctct caccagcggg gtcttcagta 180

tgtgaaaacc caattcttca accctacagg atccaacagg caatcgcagc aggcattctta 240  
 cctttatcac ccttgttcct ccaacaaccg tcagccctat tacagcagtt acctttggtg 300  
 catttggttg cacaaaacat caaggcacia caactacaac aacttggtgct aggaaacctt 360  
 gctgcctact ctacagcaaca gcagtttctt ccattcaacc aactggctgc attgaactct 420  
 gctgcttatt tgcaacaaca acta 444

<210> 11015  
 <211> 406  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-034-Q1-K1-A9

<400> 11015  
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 acccgaatat caacagcaac gggagcatct gtcttgatat cttgaaggag caatggagcc 180  
 ctgcactgac agtttctaag gtcctcctct caatttggtc ccttctgacg gacccaaacc 240  
 ctgacgatcc gttgggtcca gagattgctc acttgtaaaa gactgatcgc gtgaagtacg 300  
 aatctactgc taggagctgg actcagaaat atgcaatggg ctgacaagct attggtctct 360  
 catagaccct tctgtaactg anaccagatg tctaaattaa atttgt 406

<210> 11016  
 <211> 415  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-034-Q1-K1-B1

<400> 11016  
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 gaccttcacc tccaggagct cggccgcttc gccgtcgatg agcacaacaa gaaggccaat 180  
 gctcttcttg ggttcgagaa gcttgtaag gccaaagacac aagtgggtgc tggcacgatg 240

tactatctca ctattgaagt gaaggatggc gaagtcaaga agctctacga agctaaggtc 300  
 tgggagaagc catgggagaa cttcaaggag ctgcaggaat tcaagcctgt tgaagagtgt 360  
 gctagcgcct aaggatctct ccttcaccat gtgcgagcct gaagctcana gcaaa 415

<210> 11017

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-033-Q1-K1-H4

<400> 11017

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 atggacggat atccggtgct tgctttgatg cggctttggg aatcattcca gggctaaagg 180  
 ttcgtggaac tgattactcc actgcagatg gaacttgtat tagggactac atcgatgtca 240  
 cagaccttgt agatgcccac gtcaaagctc ttggtaaagc tcagccaggc aaagttggaa 300  
 tctacaacgt cggaacaggc caaggtagat cggtgaccga gttttagtaa gcttgcaaga 360  
 aggcaacggg agctttcatt caagtcgaat atnctgccc tagacctgga gattacgccg 420  
 aggtatacag cgacccgtcg 440

<210> 11018

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-F9

<400> 11018

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 gtggcggcag attcgggtggc cgacgtggtg gtagggatgg cggccgagga cgtggtggcc 180  
 gtggctttgg taacaagcac agcgtggtga ctcccagtgc aggaaagaag actacttttg 240  
 gtgatgattg atgatgaacg cggaggatgc tgcaaaagga tccaatgaaa ttgtgttttt 300  
 ttggtcttgt tgtggtaccg taactggaat ttggtatttt ttgtctacta ttactgtag 360

tggtttctgg attttccttg tgttgccat gctgcaatac accgttttgt tgttgcgata 420  
catctgtagt ttggctttgg tt 442

<210> 11019  
<211> 437  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-033-Q1-K1-G1  
  
<400> 11019

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tccttatgct ccttgctctt tctgcatgtg ttgctaacgc gacaattttc cctcaatgct 120  
cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata gcttcagtat 180  
gtgaaaaccc agctcttcag ccctataggc tccaacaagc aatcgagca agcaacatac 240  
ctttatcacc cttgttggtt caacaatcgc cagccctatc tttggtgcag tcattggtac 300  
aaaccatcat ggcacagcat ctgcagcaac tcgtgctacc tgtgatcaac caagtagctc 360  
tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac caactgtcta 420  
cactgaaccc tgcttct 437

<210> 11020  
<211> 388  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-033-Q1-K1-G10  
  
<400> 11020

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tcgtttctgt cgtgtgctg gctctgtcag ctgccagcgc ctctgcaatg cagatgcctt 120  
gccccgcgc ggggtgcag ggcttgtag gcgctggcgc cggcctgacg acgatgatgg 180  
gcgccggcgg gctgtacccc tacgcggagt acctgaggca gccgcagtg agcccgctgg 240  
ctgctgcgcc ctactacgcc ggggtgtggc agccgagcgc catgttccag ccgctccggc 300  
aacagtgtg ccagcagcag atgaggatga tggacgtgca gtccgtcgcg cagcagctgc 360  
agatgatgat gcagcttgag cgtgccgc 388

<210> 11021  
<211> 421  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-033-Q1-K1-G4

<400> 11021

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ggggctgcag ggcttgtacg gcgctggcgc cggcctgacg acgatgatgg gcgccggcgg 180  
gctgtacccc tacgaggagt acctgaggca gccgcagtgc agcccgtgg cgccggcgcc 240  
ctactacgcc ggggtgtgggc agacgagcgc catgtaccag ccgctccggc aacagtgctg 300  
ccagcagcag atgaggatga tggacgtgca gtccgtcgcg cagcagctgc agatgatgat 360  
gcagcttgag cgtgccgctg ncgncagcag cagcctgtac gagccagctc tgatgcagca 420  
g 421

<210> 11022  
<211> 251  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-G5

<400> 11022

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aaaatacaac atctttcaaa attccaaaaa ataaaaaaaa acaaaaaaaaa ggtcttccat 120  
tttatatgat ccaaccttca ttactcttac atccacttta ttacctacct tatactttca 180  
ccaaactcaa attcatttcc ccttatittaa caatttcttc attgacaaaa cccttgattt 240  
ccccaactaa a 251

<210> 11023  
<211> 372  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-G6

<400> 11023

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gcggggccgga tcgtgatgga gctgtacgcc aacgaggtgc ccaagaccgc ggagaacttc 180  
cgcgcgctgt gcacggggca gaagggcggtg ggcaagtccg ggaagccgct ccactacaag 240  
ggctccacct tccaccggt catccccgag ttcatgtgcc agggcgggca cttcacccgc 300  
ggcaacggca ccggcgggca gtccatctac ggcgagaagt tccccgacga gaagtctgtg 360  
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<210> 11024

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-033-Q1-K1-G7

<400> 11024

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acggaagcaa agtttctggt gaccttattc taaagccatc tgaagatgac ctcaagtgtc 180  
ggccacattg gtttgagttc cgtctgaggg cctatctttc aaaagatggg gacttgtcat 240  
tgatatcacg catcangaat gtcaatggca agccattcag tttctcattt gcttatcaca 300  
catatctttc tgattctgac atcagtgacg tcaggattga aggtctggag acacttgatc 360  
atcttgacaa ccttagccac aaagaacggt ttacggaaca aggagatgcc ataacatttg 420  
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<210> 11025

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-G9

<400> 11025



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aacaagaaca tagaatactc aagaatgaag atggatatggg gaaatctgaa cggccatata 120  
aatccccgaaa gagggggcgga cacattgaga aatgacattt cattgaggcc gtgaagatac 180  
aagaatgtgg aagtcattgtt cgcttcaatg gttctgctgc ctatttatgt ttcttgtggg 240  
ggggagaagg tgcctccagt tggagatccc ggtagcttca tagaaatgta cgatgatttt 300  
tgtaaaacga atggaagggtt gcatttgcaa attatcacct tttttgacaa gatagtagta 360  
actgatctca ccgtaagggt ttattggcaa atggcaagtc ccatgtttca atta 414

<210> 11026  
<211> 436  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-033-Q1-K1-H1  
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cgcgccgccc ttgtgggcca cgcacctctt ccccatgcct tgccatacct tctcgtcgg 180  
ccatttccca acaccgatcc acaagtggaa tctgccaat ttgccggaag gaacggaagt 240  
gtggatcaag cgagacgatt tatcaggcat gcagttgagt ggaaacaagg tccggaagct 300  
ggagttcttg atggcagatg ccgtagcaca aggcgcagac tgcgttatta ctggtggggg 360  
tatacagagt aaccactgtc gtgccacaga cgtggctgct aagtatctca atcctgaatg 420  
ctacctgata ctacgt 436

<210> 11027  
<211> 401  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-033-Q1-K1-H10  
<400> 11027

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ccgggtttca acaatcgcca gccctatctt tgggtgcagtc attggtacaa accatcaggg 120  
cacagcagct gcagcaactc gtgctacctg tgatcaacca agtagctctg gcaaaccttt 180  
ctccctactc tcagcaacaa caatttcttc cattcaacca actgtctaca ttgaaccgtg 240  
ctgcttattt gcagcaacaa ctattaccat tcagccagct agctactgcc tactctcagc 300  
aacaacaact ttttccattt aaccaattgg ccgcactgaa ccccgctgct tatttgcagc 360  
agcaaatact actacatnt aaccagctag ctgcagcaag c 401

<210> 11028  
<211> 372  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-H2

<400> 11028  
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acaacaattg ttgccctttg tccaacttgc ttgacaaac ccagcagcct cctaccaaca 180  
acacatcatt ggtggtgccc tcttttagat tgcttattag atgtaattca ataataaagt 240  
tttttggatg atgtatgtgg ccaaccagaa ataaaaagtt acatttccaa aaaaaaaaaa 300  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360  
aaaaaagggc gg 372

<210> 11029  
<211> 435  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-033-Q1-K1-F7

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ttccctcctt atgtctcttg ctctttctgc atgtgttgct aacgcgacaa ttttccctca 120  
atgtcaciaa gctcctatag ctcccttct tccccatac cttccatcaa tgatagcttc 180  
agtatgtgaa aaccagctc ttcagcccta taggctccaa caagcaatcg cagcaagcaa 240

cataccttta tcacccttgt tgtttcaaca atcgccagcc ctatctttgg tgcagtcatt 300  
 ggtacaaacc atcagggcac agcagctgca gcaactcgtg ctacctgtga tcaaccaagt 360  
 agctctggca aacctttctc cctactctca gcaacaacaa tntcttccat tcaaccaact 420  
 gtctacactg aaccc 435

<210> 11030  
 <211> 199  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-E11

<400> 11030

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 ttgccaccag tcatgccatt ggggtaccatg aacccatgca tgcagtactg catgatgcaa 180  
 caggggcttg ccagcttga 199

<210> 11031  
 <211> 405  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-033-Q1-K1-E12

<400> 11031

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 ggcactcccc atccccggct ttcttcttgc aacagaaccc agcattttca cacgttggca 120  
 ttgacacgta cccagtgcc acgcccagag tgcaccgagc aagcttggca gaagccgttc 180  
 gagcaccggc ggcgcccgcg ttccacagtg catcttcggc tgtggcgaac cggaccatgg 240  
 gcgcggaccg cgtgggtcaa ggtctctagt caggttgact cgatagataa agattctttc 300  
 tcttctgact cgagaccaag atcaggttga ttcgagagac aaagattttt ttctcctctg 360  
 acgagacaaa gattctttct cctcgtccag atagtgatgt ctgga 405

<210> 11032

<211> 397  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-033-Q1-K1-E5  
  
 <400> 11032  
  
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 tgcacttttt gcgagcgcta caaatacatt cattattaca caatgctcac tcgctccaag 120  
 ttccatcatt acacacatcc taccaccagt tacttcaatg ggcttccaac acccaactgt 180  
 gcaagcctat aggctacaac aagccatttc cgccagcgtc ttacaacaac caattttcca 240  
 tttgcaacaa caatccttgg cacatctaac aatacaaacc atcgcaacgc aacaacaaca 300  
 acaattccta ccatcactta accacctaac cattgtaaac cctgccgtct acttgcaaca 360  
 gcaattgctt gcatcacacc cactttctct tgcaaac 397

<210> 11033  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 gtgccggaca cgggagccat ggtggcgtg aagcgctgca gcagcaccgg cgcgcgcggc 180  
 ggaggcaacg cgagcggcga gcaggcgcg tccgagttcc tgcggagct gtccatcatc 240  
 gcgggggtcc ggcaccgcaa cctgctccgg ctgcaggggt ggtgctacga gaagggggag 300  
 atcctgctgg tgtagacta catgcgcaac ggcagcctgg accgggcgt gtccgacgcg 360  
 tcggcgcccg tgctgccgtg gcgccaccgg cgcgagggcc tggcnnccg ttgcgtcgcg 420  
 cttgcgtac 429

<210> 11034  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-E9

<400> 11034

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ggagagttct ggtgctatct gcacatatat cctctctata cacttgtaaa aactgacaa 120  
ttctgtatct gtatgaagta tatcataact tacaacggtt gttattcccc agctacacta 180  
cttgtctggt gtatatctct tttttttctc gaaagcgcag gagaactgcg cgatattata 240  
ttaagcatat aggggtttct ttttgggatc ttctgagttt gagccttttc atagaatatg 300  
gaaatcttgg gctcctccaa aaaccaagtt ttttatgtgg ttggcgcac acaggaaggt 360  
ttggacggca gatagactgc agaaaagggg tatggaccat ccaaagagat gtccactatg 420  
tg 422

<210> 11035

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-033-Q1-K1-F1

<400> 11035

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tcgaaggggc aatagacagc aggcagggcc ccgaactgcg ggaggagatt cccaaggatc 120  
tcgtcgcccg ggtagaggaa gggacgggga cgggcgatgg cggcggacgg cggcggcggg 180  
gtggactggg agagcctggc ggaggccacc tccggggcaa tcggctcgct cgtcagcacc 240  
accgtgctct acccgctcga cacctgcaag accaagttcc aggccgagct ccagacgcac 300  
cagggcgctc agaagtatag gaacctttca gatgtctttt gggaagcgat tcgtaaaaag 360  
caatttttgt ccctatatca gggcctgaac acgaagaaca ttcagtcttt tgtctnctcg 420  
gtttttaatt ttatgggtat agctatttta aa 452

<210> 11036

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-F11

<400> 11036

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ttcctatatc ccaacatcaa caacagtat aacaaattct accacagatc actcactttg 120  
tcatccacaa ccctattgac tacctacaac agcatcaaca ccttctatct acccaactcg 180  
atatcaacaa tatacctaca aacatacaac aactgttctt acaacaacac ctt 233

<210> 11037

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-F12

<400> 11037

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gtgactgctt caacagtggg ataaataaga tatttgtgat gagtcagttc aattctactt 120  
cgcttaaccg ccatattcat cgtacatacc ttgaaggcgg gatcaacttt gctgatggat 180  
ctgtacaggt attagcggct acacaaatgc ctgaagagcc agctggatgg ttccagggtg 240  
cagcagactc tatcagaaaa tttatctggg tactcgagga ttattacagt cacaaatcca 300  
ttgacaacat tgtaatcttg agtggcgatc agctttatcg gatgaattac atggaacttg 360  
tgcagaaaca tgctcaggac gatgctgata tcactatatc at 402

<210> 11038

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-F2

<400> 11038

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ggcaccgatt cgagcagggc gacgtggtgg ccatgccggc cggcgcccag cactggctgt 120  
acaacgacgg cgacgcgccg cttgtggcgg tctacgtctt cgacgagaac aacaacatca 180  
accagctcga gccttccatg aggaaattct tgctggctgg gggcttcagc aaggggcagc 240

cccacttcgc cgagaacatc ttcaaaggga tcgacgcccg gttcctgagc gaagccctgg 300  
 gcgtcagcat gcacgtcgcc gagaagctgc agagccggcg tgaccagcga ggcgagatca 360  
 gccgcgtgga gccggagcac gggtttcacc agctgaatgc gtcggcgctc tcg 413

<210> 11039

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-F3

<400> 11039

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 agtcgcattt caccggttca tcttctcgga gcttctcaac aagatgggtgc gtcaccgcaa 120  
 tcttttggtg gtggagttca tcagtgactc cgacgaaatc taggaggaat cgcctgttcc 180  
 ttctcctgcg tctcatcgat ctctctcaa gagaggacta ggctctggcc gtttggaagg 240  
 ggagggaccc tcgatgccct cgcaaccgc gcgccagggg cgtcaaaagg ttggcgccac 300  
 tcgttctcgc caaagcacct tctccgcttg ataccttca tgccaggagg aggatggagc 360  
 gttcgacgac taggtctaac ttccatcttt cgac 394

<210> 11040

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-F4

<400> 11040

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 ggggtgggtc ggctgagcgt ggaggacgcc aagaagggtga tctcaagga caagccggac 120  
 gccgacatcg tgggtgctgc cgtcggctcc gtggtgaccg cggattatcg cctaaccgt 180  
 gtccgcatct tcgtcgacat cgtcgcccag acgccccaca tcggctgata atatataagc 240  
 tagccgctat ttcctttcct tgccccagaa cttgaaataa atatataac gatgaaataa 300  
 cgcgggcatg ccg 313

<210> 11041

<211> 385  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-033-Q1-K1-F5  
  
 <400> 11041  
  
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 cattattgat caagatggaa atggaaagat ttctaacatt gatatccaga ggattgccaa 120  
 agagctgggt gtaaattctca ccctcgatga gatccaagac atggtgcaag aggctgatag 180  
 aaatggtgac ggtgaaatag actttgacga gttcatcagg atgatgagga ggaccagctt 240  
 tggctactag gtgcatttat ctgcgagtgc ttgacgcttc cagtttgttt atgactaccg 300  
 tgcgtgtggt aatcaactgg tgtggttact atgaacaatg tgctctgggt tcgcttttat 360  
 atataatttt aatttaattt taatt 385

<210> 11042  
 <211> 384  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-033-Q1-K1-E1  
  
 <400> 11042  
  
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 cttgcgcttc ttgcgctttt tgcgagcgca acaaatgcgt tcattattcc acaatgctca 120  
 cttgctccaa gttccattat tacacagttc ctcccaccag ttacttcaat gggcttcgaa 180  
 cccccagctg tgcaagccta taggctacaa caagcaattg cggcgagcgt cttacaacaa 240  
 ccaatttccc agttgcaaca acaatccttg gcacatctaa caatacaaac catcgcaacg 300  
 caacagcaac aacaattcct accagcactg agccacctag ccatggtgaa ccctgccgcc 360  
 tacttgcaac agcagttgct tgca 384

<210> 11043  
 <211> 432  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-033-Q1-K1-C8



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atcttaagca gtatccagac aatttcaggt acgacaaagc cctcagcagg gagcagaaga 120

acaggagcgg cggcaagatg tacgtccagg acaagatcga ggagtacagc gacgagatct 180

tcaagctcct ggacggcggc gcgcacatct acttctgcgg cttgaagggg atgatgcctg 240

gaatccagga cacccttaag aagggtggcg agcggagagg cgagagctgg gaccagaagc 300

tggcccagct caagaagaac aagcaatggc acgtcgaggt ctactagggc tcggattgct 360

gtggttgcca cccttgatgc tgccgngca gcgtcaggag acaaacacat gattgaaatg 420

aatcgatgga tg 432

<210> 11044

<211> 421

<212> DNA

<213> Zea mays

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<400> 11044

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ctgaccttga taaactatat attacaaaag tgagtagctc tataggctct gcttatgaga 120

tttttatgga tattttttat tacactcgta atgggtgttt ccatttggct tttttgtcaa 180

agttcatgaa gaaattgttt cttatgccta gcaaacgctt caaatgcaag gaaatggtta 240

gttgaggggc ataccgatgg tgctctttta agttatgcag ttgctgcctc aagctttctg 300

cctccctttg ccagagctag taagattgga aaagctttca attaattaac ataaatgaga 360

gtgactggac aaccatatga tctctacttt agagtaggga ctacaactac aacgaaaaga 420

a 421

<210> 11045

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-D10

<400> 11045

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tcaaagggtga acttgctggt ttggaactag aactgcaggc tctgggtggc ctagctgaag 120  
aggttgctaa ttttgatggt ccgtaggggt ctaggaagat aaacggaaaa tatattcaat 180  
ctcatcttct ctccagatta gaagctgtcc atgataagat tatggaacag gtaaagagt 240  
ttgacgcttt aaagacccaa gaaattcctg tctactggat tggcatggct gagaatgtgc 300  
agatcatggg ttcatcgcgat ggatggtcac agggcgaggc gatgtccatg gagtattcag 360  
gtgactacgg aagattctct gcgactctga agc 393

<210> 11046  
<211> 333  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-033-Q1-K1-D12  
<400> 11046

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gggccagtgc gtcgagttcc tgaggcatca gtgcagcccg acggcgacgc cctactgctc 120  
gcctcagtgc cagtcgttgc ggcagcagtg ttgccagcag ctccaggcagg tggagccgca 180  
gcaccgggtac caggcgatct tcggcttggc ccttcagtcc attctgcagc agcagccgca 240  
aagcggccaa gtcgcggggc tgttggccgc gcaaatacg cagcaactga cggcgatgtg 300  
cgggctgcag cagccgactt catgcccta cgc 333

<210> 11047  
<211> 374  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-033-Q1-K1-D2  
<400> 11047

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cgcatcaccg gtaccaggcg atcttcggct tggctctaca gtccattctg cagcagcagc 120  
cgcaaagcgg ccaggtcgcg gagctgttgg cagcgcagat agcgcaacaa ctgacagcga 180  
tgtgcggcct gcatcaaccg actccatgcc cctacgtgc tgccggcggt gtccccact 240

gaagaaacta tgtgctgtat tatagccgct ggctagctag ctagtagaag catttaccgg 300  
 agatgattga gttataatgt gtcacgcatt agcatgggtg gcagtgtcag tgtagcaat 360  
 gaccttgatg aaac 374

<210> 11048  
 <211> 413  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-033-Q1-K1-D4  
 <400> 11048

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 ggatgagtct acagctgggtg ataaacagcc aagagtttca ctctgggaga ttgagccact 120  
 gacaaccttt ccgatgtacc caactgcttt tccattaagg ctaaagcgtc cgtgggcttc 180  
 aggactacct atgttcaatg gtgggaggag cgacgagttc gctcgttatt cttctctcat 240  
 gtggcttcga gatggaaacc gaggggctca gtcactgaac ttccaggagac ttggagcatc 300  
 accatggctt cagccaagaa tagattatcc attgttgagt ctgaagccag atacttacca 360  
 gcagatggct gccgccgcac tagaagaaat tagagctggg gatcatttga agc 413

<210> 11049  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-033-Q1-K1-D5  
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 gagattattc gcaagggatt ctaccagacc aagaacgtcg agcacaaggg ccaggtggat 180  
 ttggtgacgg agacggacaa ggcttgcgag gacatcatct tcaaccacct ccggaagcac 240  
 ttcccgacc acaagttcat cggggaggag gaggccgagg cgctcggggc caccgatgac 300  
 ctcaccgacg accccacctg gatcgctgat cccctcgacg ggaccactaa tttcgtccat 360  
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gtcgtc

426

<210> 11050  
<211> 289  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-D6

<400> 11050

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ttggaattga tgactgctgg aggaatgagc acttctgggt cattggaggt ctgtcctcac 120  
acctctttgc tgtgatccac ggacttctca aggtcatagc tgggtgttgat acaagcttca 180  
ccgtgacatc caacggtggc gatgatgact gagttctcac agctatatac attcaaattg 240  
actaccttat tgatacctac taccaccttg cttctattga acttcattg 289

<210> 11051  
<211> 412  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-D7

<400> 11051

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gagctccgtg atcgggcacc ccaccgatgg atcctccgtc agcggcggcg gcctcagcca 180  
gaatggtaga tttagctatg gctatgcaag ctcccctggt aaaagggcat ccatggaaga 240  
cttctatgag acaaaaattg attgtgttga tggtcagata gttggtcttt ttggagattt 300  
tgatggatcat ggcggtgcta aggtagcaga gtatgttaaa gaaaacctgg tcaacaatct 360  
tgatagtcac ccaaagttca tcagtgtatc taaagtcgct atagatgatg ct 412

<210> 11052  
<211> 427  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-D8

<400> 11052

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ccaagacatc cgccgatctc agatggcccg gagaaggggtg cgcggaaga gtgccgtggc 120  
cgtggcggcc gtgcgctgc tggcgctgct ctgcggcg agcgaggccg actggacgtg 180  
caacgtcgac cggggcacgg tgctgaggca gtgcgcgtcc tgctcgagcg gcgcgccgag 240  
ccaggggtgc tgcgacgcgc tgaggaacgc cgacttcggc tgctctgca gcaactactg 300  
gaacaagctc aagaacacgc catacgccag ctgcgccaag gccatccctt tcgctgcaa 360  
cctgccaaac gccaaagtgc agtagatgga gacatggagt gcgtgaccg gacagctaac 420  
gggcagc 427

<210> 11053

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-D9

<400> 11053

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tggctaccaa gatattagcc ctcttgccg ttcttgccct tttgtgagc gcaacaatg 120  
cgttcattat tccacaatgc tcaactgtc ctagtgccat tattccacag ttctccac 180  
cagttacttc aatgggcttc gaacacctag ctgtgcaagc caacatgcaa caacaagcg 240  
ttgcggcgag cgtcttaca caaccaattg cccaattgca acaacaatcc ttgccacatc 300  
taacaatata agccatcaca acgcaacagc aacaacagtt tctaccagca ctgagccacc 360  
tagccatggt gaaccctgcc gtctacttgc aagagcagct gcttgc 406

<210> 11054

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-B12

<400> 11054

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cgcgctcagg gtcagggagg cgaagatgat cgaggtggtg ctgaacgacc gcctggggaa 120  
gaaggtgcgg gtgaagtgca acgaggacga caccatcggc gacctcaaga agctggtggc 180  
ggcgcagacg gggacgcgcc ccgagaagat ccgcattccag aagtgggtaca acatctacaa 240  
ggaccacatc acgctcaagg actacgagat ccacgacggg atgggggctcg agctctacta 300  
caactaggcg ccctgacccc aaccgtgccc tgatgtaagg ttaatccgaa ttctgaagtc 360  
atgggtgcgc ttccagtcgc agcgtcttta gctaacaagc tcgcatacat ataggcaact 420  
tgagtg 426

<210> 11055  
<211> 392  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-033-Q1-K1-B2  
<400> 11055

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ttcagagaga ttagaagaag gtactgacca agcatctcaa ataagccaat ttcttgaggg 120  
atacagagca ggaagaacaa caaagaagaa aattagcggc ccttctttca tgggtttcct 180  
gaattctctg gtcagcttga cctcgtgtga catccttata ttcgtcattg cccttctgtt 240  
tgtcatgggtg tacttttgctg ggcaagatga tactccacag ccaagacgaa ttcatgaaga 300  
gtgatggaag cttgggggagc ttcttgacc tgaagtgtaa agatggctaa tgtaccanga 360  
gatgtagctc agaggttata gatttcaaac tt 392

<210> 11056  
<211> 434  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-033-Q1-K1-B3  
<400> 11056

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gtgcctcctt atgtctcttg gtctttctgc aagtgtgct acgacgacca ttttcccgca 120

atgtcacaaa gtcctatag cttctcttct tccccatac ctctcaccag cgttgtcttc 180  
 agtatgtgaa aacccaattc ttcaacccta caggatccaa caggcaatca cagcaggcat 240  
 cttaccttta tcacccttgt tcctccaaca atcatcagcc ctattacatc aattaccttt 300  
 ggtgcattta ttggcacaaa acatcagggc acaacaacta caacaactcg tgctagcaaa 360  
 acctgctgcc tacgctcatc aacaagcagt acctttggtg catttggttg cacaaaacat 420  
 tatggcacia caac 434

<210> 11057  
 <211> 379  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-033-Q1-K1-B4

<400> 11057  
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 gggctcgtc tcctggctct cgctgcgagc gccacctcca cgcatacaag cggcggctgc 120  
 ggctgccagc caccgtcgcc ggttcattcta ccgccgccgg tgcattctgcc acctccggtt 180  
 cactgccac ctccggtgca tcttcaccg ccgggtccacc tgccgccgcc ggtccacctg 240  
 ccaccgacgg tccatgtgcc gccgccggtt catctgccga cgccaccatg ccactaccct 300  
 actcaaccgt cccggcctca gtctcatccn cagccacacc catgcccggtg ccaacagccg 360  
 gattccagcc cgtgccagc 379

<210> 11058  
 <211> 405  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-B5

<400> 11058  
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 tagtgtacca acaatggcag ccaaaatatt ttgcctcctt atgtccttg gtctttctgc 120  
 aagtgtgct actgcgacca ttttcccgca atgtcgcgaa gtcctatag cttcccttct 180  
 tccccgtac ctctcaccag cgggtgtcttc ggtatgtgaa aacccaattc ttcaacccta 240

caggatccaa caggcaatcg cagctggcat cttaccttta tcacccttgt tcctccaaca 300  
atcatcagcc ctattacaac agttaccttt ggtgcattta ttggcacaaa acatcatggc 360  
acaacaacta caacaacttg tgctagcaaa ccttgctgcc tactc 405

<210> 11059  
<211> 299  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-033-Q1-K1-B6  
<400> 11059

cccacgcgtc cgtcaacggg ctttgggcat ttgcgaattg ctaatgatga tgtgtacgag 60  
ttagctgaga atatcaaac caagggtcgt aagatcaccg gcgaacctgg tcctgtcacg 120  
ggacgatcca ctgttcttgc cttagcacia gatcctcatg tctacatgtt tgagcttatt 180  
ctgaggtctg actcacctga gtctctttgc caatatacgc tattgggtctt ttacctttat 240  
cgtgtactaa gctgtacgag atggtcctac acatgcaact cctattgatg aaggatgat 299

<210> 11060  
<211> 407  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-033-Q1-K1-B7  
<400> 11060

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ggcagccaaa atatttttgc tccttatgct ccttgggtctt tctgcaagtg ttgctaccgc 120  
aaccattttc ccacaatgct cacaagctcc tatagcttcc cttcttcccc catacctctc 180  
accagcggtg tcttcaatgt gtgaaaaccc aattgttcaa ccctacagga tccaacaggc 240  
aatcgcaaca ggcattcttac cattatcacc cttgttcttc caacaaccgt cagccctatt 300  
acagcagtta ccttttggtcc atttggtggc aaaaaacatc agggcacaaac aactacaaca 360  
acttgtgcta gcaaaccttg ctgcatactc tcagcaacat cagtttc 407

<210> 11061  
<211> 364



<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-033-Q1-K1-B9  
  
 <400> 11061  
  
 aagaaaaaaaa acaaataaca acataaaaag cacaataata taccaacaat gacaaacagg 60  
 atcggtcgct ttcttagacc caaaaggctc gtatgcaagc attagtaaag ctaacatttt 120  
 tatacagtgc tcacaatcta atatatcttc cgttgtttta ccataactca aatcagagga 180  
 ctcttcaatg taccaaatta caattgctta accctactcg atccaacatg caatcgcaac 240  
 aagcctatta ccattatcac gcttggttcc caaaaaacg tgacccctat tacagcaaat 300  
 acctatgggc ccatttatgg cacaaaaaat ccggccacaa catctacaac aacttggtgc 360  
 acca 364

<210> 11062  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-033-Q1-K1-C1  
  
 <400> 11062  
  
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 gcagccaaaa tattttgctt ctttatgctc cttgggtctt ctgcaagtgc tgctaccgca 120  
 accattttcc cacaatgctc acaagctcct atagcttcc tttttcccc atacctctca 180  
 ccagcgggtg cttcagtatg tgaaaacca attcttcaac cctacaggat ccaacaggca 240  
 atcgcagcag gcattctacc tttatcacc ttgttctcc aacaaccgtc agccctatta 300  
 cagcagttac ctttggtgca tttgttgga caaacatca aggcacaaca actacaacaa 360  
 cttgtgctag gaaaccttgc tgcctactct cagcaacagc cagttcttcc attcaaccaa 420  
 ctg 423

<210> 11063  
 <211> 399  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-033-Q1-K1-C10

<400> 11063

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cgttgaccag ggatcggaag accgcgttcg acatagccga gggccttccc ctgtcagagg 120  
agttctcaaga aatcaaggag tgctgtccc gtgcgggtgc ggtcagagca aacgatctga 180  
accagcctcg ggacgagctg aggaaaacag tgacagagat aaagaaggac gtgcataccc 240  
agctggagca ggcgaggaaa accaacaaga acgtgtacgg catcgccaag gagctgaaga 300  
agctccacag ggaaagcatc aacaacgcga cgaactcggg gaccgtcgtg gcggtgctgt 360  
tcgcgacggg ggcgttcgcg gcgatcttca cggtgcccg 399

<210> 11064

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-C12

<400> 11064

cggacgcgtg ggtgccggcc ggcgcccagc actggctgta caacgacggc gacgcgccgc 60  
ttgtggcggg ctacgtcttc gacgagaaca acaacatcaa ccagctcgag ccttccatga 120  
ggaaattctt gctggctggg ggcttcagca aggggcagcc ccacttcgcc gagaacatct 180  
tcaaagggat cgacgcccgg ttcctgagcg aagccctggg cgtcagcatg cacgtcgccg 240  
agaagctgca gagccggcgt gaccagcgag gcgagatcgt ccgcgtggag ccggagcacg 300  
gctttcacca gctgaatccg tcgccgtcgt cgtcgtcgtt ttcgttccca tcgtcacaag 360  
tccagtacca aacgtgccag cgcgacgtcg acaggcacia cgtctgcgcc at 412

<210> 11065

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-C3

<400> 11065

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caggcttcct agtgaagcac cattgattat tgagaactgc cgtccaccat catcatggcc 120

tcagaatgga aacattgaac tgattgatct caaggtccgc tacaaggacg atctaccatt 180  
 agttcttcat ggtgtaagtt gtatgtttcc tggcgggaaa aagattggga ttgtagggcg 240  
 tactggaagc ggtaaactca ctcttattca ggcccttttc cgcctaattg agccactgg 300  
 agggaagatt ataattgaca acattgacat ctctgcaatt ggccttcacg atctgcggtc 360  
 acggttgagc atcattcccc aagaccctac attatttgag ggtactatca gaatg 415

<210> 11066  
 <211> 228  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-C4

<400> 11066

caaggacaag gacgacccca acctgggcat caagatcaac gccaccctcg cgctcgggct 60  
 cggcaacgcc tgcggcgcca cccgcgcca cgtctccac tgcgctcagc tcctgcatat 120  
 tccccgggc tccaaagacg ccgccgtctt cagccccggc cggcgacaag ggctccactg 180  
 ccgctccagc caaggacaac tcgacggcga cgaccogact ccgcgcgc 228

<210> 11067  
 <211> 342  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-B10

<400> 11067

gcatagccat cttcttcgtc gacaagcttg ggagttaggt ctcacatgca tgcttcagca 60  
 cagtgttgac tgcataacga aacacattgt cgtcggatcg gagatgatga gttctgtcgt 120  
 ctgtgatgct tatgccttca attgggcttt tctttgcttc ggtgttctgg tctcgtctgg 180  
 gtttcagact ccagatttgg agcataagac accggctcctt ggtttccttg ccgccttgcc 240  
 ggctgcaatg ttatggcgct tgcgggtgta tgtatagcct gaattctgtg atgacggtga 300  
 agttctcggt gttgggaaat ttttctgtg cttctctttt tc 342

<210> 11068  
 <211> 331

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-032-Q1-K1-H5  
  
 <400> 11068  
  
 agcaacatag aaagcacaat agtgtaccaa cattggctgc caaaatattt tgctgcgta 60  
 tgctccttgg tctttctgca agtgctgcta cggcgaccat tttcccgcaa tgctcgcaag 120  
 ctctatagc ttccattctt ccccggtacc tgtcaccagc ggagtcttcg gtatgtgaaa 180  
 acccaattct tgaaccctac aggatccaac aggcaatcgc agctggcatc ttaccttgat 240  
 cacacttggt cctccaacaa tcacagccc tattacaaca gttacctttg gtgcatttat 300  
 tggcacaata catcatggca tcatcaacta c 331

<210> 11069  
 <211> 334  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-032-Q1-K1-H6  
  
 <400> 11069  
  
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 agggcagatc tatttttggg gcttcggcag aagaattttg atcctttccc aaagaaaaaa 120  
 aagagggctg aaccagctgc tgtaggtgct ttagaagagg aggaaaatga agagagtcct 180  
 gaagctgctg gagcggaacc tagtgactat gagtatctcc tctcaatgac aattggtacg 240  
 ttgactttgg aaaagataca ggagcttaat gctgagaaac ataaattagt ggatgatngt 300  
 gaggaattgg agaatatgtc accaaaatca ctat 334

<210> 11070  
 <211> 387  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-032-Q1-K1-H7  
  
 <400> 11070  
  
 cccacgcgtt cgcccacgcg ttcggccacg cgtccgattg agaccaacaa gcgacataga 60

aagtggaatc cagtagcaac aatagagcaa caatggcgac caagatattt tccctcctta 120  
tgctacttgc tctttctgca tgtgttgcta acgcgacaat tttgcctcaa tgctcacaag 180  
ctcctatagc ttaccttctt ccaccatacc ttacatcaat gatagcttca gtatgtgaaa 240  
accagctct tcaacctat aggcctcaac aagcaatcgc agcaagcaac atacctttat 300  
caccttggt tcaacaatcg ccagccctat cttttgtgca atcattggta caaacatca 360  
gggcacagca gctgcagcaa ctcgtgc 387

<210> 11071  
<211> 384  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-032-Q1-K1-H9

<400> 11071  
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gatctctatg cacatggtaa gaccaccatc ctctactagc tcaagctagt agaaatcgcg 180  
accaccatcc ctacaatcgg gtttaatgtg gagactgttg aatacaagaa cattagcttc 240  
actgtctggg atgttggagg tcatgacaag atcaggccat tgtggaggca ctatttccag 300  
aacaccaag gccttatctt tgttgctgat agcaatgaca gagatcgtgt tgttgaagca 360  
aaggatgagc tccacaggat gctg 384

<210> 11072  
<211> 390  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-033-Q1-K1-A1

<400> 11072  
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catccatggc gactaggggt tggctcaccg cctcctgct tggtttctc gtcgccgct 120  
ccccctcac cggccgagtt gctagagctg aatccgagga agatgctgct gcagctgagg 180  
ttgttgaagg ggctgatcta ggtattgtgg gtgatgatac acaggtttcc agtcatggac 240

ctttaagtcc tgctcctggg gtagagacag tagttgtctt cccaaaaaat gctggcaaaa 300  
 ttgtactagc aggtgaagaa actgaattac tagttgggtct gcaaaatgac ggtgaatcaa 360  
 ttttgaatgt tgntgctgnt cattcaactc 390

<210> 11073  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-A11

<400> 11073

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 ccgcgggtgtc gctgcgggttc gagggcggcg gcgcgctgcg gctgccggcg aagaactacc 120  
 tgatccccgt ggacggagcc ggcacctact gcctggcggt cgcgccgacg aacgcggccg 180  
 tgtccatcat cgggaacgtg cagcagcagg gcacccgctg cagcttcgac accggcaggg 240  
 gcgccgtcgg cttcaccccc aacaagtgtc agcctagcct agcctaagcc tgacttctgg 300  
 ctaaccgtgc cctgttagcc acggatgtca gtagcaatga caagccggtg tttgactagc 360  
 gggagaatga ttagatgggg ggtaattgac cgggtgggcc tgccgaatct ggggag 416

<210> 11074  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-A12

<400> 11074

cccacgcgtc cgcacacgcg tccgggcggt ggcagcacc cgatectggg ccagtgcgtc 60  
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 tcgttgccgg agcagtgttg ccagcagctc aggcaggtgg agccgcagca ccggtaccag 180  
 gcgatcttcg gcttggctct ccagtccatc ctgcagcagc agccgcaaag cggccaggtc 240  
 gcggggctgt tggcggcgca gatagcgag caactgacgg cgatgtgcgg cctgcagcag 300  
 ccgactccat gccctacgc tgctgccggc ggtgtcccc actgaagaaa ctatgtgctg 360  
 tagtatagcc gctggctagc tagctagttg agtcatttag cggcgatgat tgagtaataa 420

t

421

<210> 11075  
<211> 312  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-033-Q1-K1-A2  
  
<400> 11075

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gggccaacag attaacattc ttcattcaaca tatttttcgt ctttaattctc atagctattt 120  
ctgcatgcgt tgcttacgct acaaattcagc ctttaattgctc acaacctcat atagcttacc 180  
taatagcgag atacctctta tcaatgatag cttacattat tctaaaaccc agctttttcat 240  
ccatataggc tacatccatc cacttcatca cgcaacatac ctatatcacc cttcttgact 300  
caactataat ca 312

<210> 11076  
<211> 378  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-033-Q1-K1-A3  
  
<400> 11076

agctactgcc tactctcagc aacaacaact tcttccattt aaccaattgg ccgcactgaa 60  
ccccgtgct tatttgcagc agcaaatact actaccattt agccagctag ctgcagcaaa 120  
ccgtgcttcc ttcttgacac agcaacagtt gctgcctttc taccagcagt ttgcggctaa 180  
ccccgcaacc ctcttacaac tacaacaatt gttgcccttt gtccaacttg ctttgacaga 240  
cccagcggcc tcctaccaac aacacatcat tgggtggtgcc ctctttttaga ttgcttatta 300  
gttgtaattc aataataaag ttttttggat gatgtatgtg gcccaaccaga aataagaagt 360  
tacatttcca gattctat 378

<210> 11077  
<211> 345  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-033-Q1-K1-A8

<400> 11077

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ccccgcgaat ccaatttcag ctctngccgc cgctgccgtc agcaaggcag gggagcgcgc 120  
aaggggatgc cgtngetggc cacngtngc tgcgcnntcg cggaccgcgc cgacnntgt 180  
tcgcgccgcn ctcttccgc aagaaagggg gctacatnnc ccgctcaacc aacctaact 240  
nnccgcacct accaagaatc ggcgaaactac gtncgcacgt caaagggatga accggcnngc 300  
cgtccccaca agggggaatn ngccgcacan nagttctaaa ccacg 345

<210> 11078  
<211> 412  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-A9

<400> 11078

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cctccttgcg cttcttgccc ttttagtgag cgcaacaaat gcgttcatta ttccacagt 120  
ctcacttgct cctagtgcc aatttccaca gtccctocca ccagttactt caatgggctt 180  
cgaacatcca gccgtgcaag cctacaggct acaactagcg cttgcccga gcgccttaca 240  
acaaccaatt gcccaattgc aacaacaatc cttggcacat ctaaccctac aaaccattgc 300  
aacgcaacaa caacaacaac agtttctgcc atcactgagc cacctagccg tggatgaacc 360  
tgtcacctac ttgcaacagc agctgcttgc atccaacca cttgctctgg cg 412

<210> 11079  
<211> 406  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-F8

<400> 11079

gaccgcttca gtatgtgaaa acccagccct tcaaccctac aggctccaac aagcaatggc 60



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gcagtcattg gtacaaacca tcagggcaca acagctgcag caactcgtgc taccagtgat 180  
cagccaagta gctctggcaa acctttctcc ctactctcag caacaacaat ttcttccatt 240  
caaccaactg tctacactga accctgctgc ttatttgcag caacaacaac tactaccatt 300  
cagccagcta gctactgcct actctcagca gcaacaattt cttccattta accaattcgc 360  
cgactgaac cctctgctt atttccagca gcaaatacta ctacca 406

<210> 11080

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-F9

<400> 11080

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gtcaacatgc aacttacctt tatcaccctt gttctttcaa caatcgccag ccctatcttt 120  
ggcgcagtca ttggtacaaa ccatcagggc acaacagctg cagcaactcg tgctaccagt 180  
gatcagccaa gtatctctgg caaacctttc tccctactct cagcaacaac aatttcttcc 240  
attcaaccaa ctgtctacac tgaacctgct tgcttatttg catcaacaac aactactacc 300  
attcagccag ctagctactg cctactctca gcaacaacaa tttcttccat ttaaccaatt 360  
cgccgcactg aaccctatt cttatttcca gcatc 395

<210> 11081

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-G10

<400> 11081

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caaatctgat ttgcgtaaa tggactcatc atgtgaccac tctattgttc tttgtatttg 180  
gtatttggtc attgtgggaa ggcttcaagg aagatggaga ttcagaagaa ttggctgaag 240

ttgaagcaga gctggatgat gtctttaaga gtaataaagg cgaatctaaa aataaaacta 300  
aggcaaacga tgatacgaag aaacagcaaa gaccatttct catgcaattc ttctcaccaa 360  
ttttcataaa ggcattttct attacatt 388

<210> 11082

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-G12

<400> 11082

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gctcgtcgcc ggcggcaagc tgaccaaggt gaagaactcg tacaagctgt cgtccgccgc 120  
caccaagccg aatcccaagc ccaaggccgc cccgaagaag cccaagaccg gcgctaagaa 180  
gccaaggcc gctgccaaga ccaaagctaa gacccccgcc aaggcgaagc ccgccacaaa 240  
gccaagccc gccgcgaagc cgaaagccgt agtgaagccg aagacacccg ccaagcccaa 300  
ggccaagcca gctgccaagg cgaagcccaa gaccgccggc gctaagccga atccacttgc 360  
taagaaagcc g 371

<210> 11083

<211> 377

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-032-Q1-K1-G2

<400> 11083

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aatgtcaca agctcctata gttcccttc tttccccgta cctctcacca gtgttgtctt 180  
cagtatgtga aaaccaatt cttcaaccct acaggatcca acatgcaatt gcatcaggca 240  
tcttaccttt atcacccttg ttctccaac aatcatcagc cctattacag cagttacctt 300  
tggtgcantt attggcacat aacatcaggg cacaacaact cgtgctagca aaccttgctg 360  
cctactctca gcaacaa 377

<210> 11084  
 <211> 294  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-032-Q1-K1-G3  
  
 <400> 11084  
  
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 cactgacagc cgcggaagat caatactcaa ctatacaatc ctacatgggt caagaggcca 120  
 tccaagcttg catcttacgt tcattaacta aaatcctaca tcaaccatat actatattgc 180  
 aacatccatt cttaatgcat ctgtataatc aacgaatttc ataacaacaa ctactacatc 240  
 aaattcatat caacaatcaa tcaagtagtt tcagcgaatc tttgtgctta cttt 294

<210> 11085  
 <211> 199  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-032-Q1-K1-G4  
  
 <400> 11085  
  
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 ttggatcacc tcatgaattg ggacatcaag tggcccttat ccgtcaagtc tctaactaag 120  
 ttttcaccag tatggggaaa actattgcgt acatgatcgg aacgatgact gagattctca 180  
 gggcagctct agcggctta 199

<210> 11086  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-032-Q1-K1-G7  
  
 <400> 11086  
  
 ccgatacctt ccatcaatga tagcttcagt atgtgaaaac ccatctcttc aaccctggag 60  
 gcgccaacaa gcaatcgcat catgcaacat acctttatca cccttggttc aacaatcgcc 120  
 agccctatct ttggtgcagt cattgggttca aaccatcagg gcacagcagc tgcagcaact 180

cgtgctacct gtgatcaacc aagtagctct ggcaaacctt tctgcctact ctcagcatca 240  
 acaattttctt ccattcaacc aactgtctac attgaaccgt gctgcttatt tgcagcaaca 300  
 actattacca ttcagccagc tagctactgc ctactctcag caacaacaac ttcttccatt 360  
 taaccaattg gccgcactga accccgctgc ttatttgcag cagcaaatac tactaccatt 420  
 ta 422

<210> 11087  
 <211> 393  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-G9

<400> 11087

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 gcgacccata ttccagggca cttgccacca gtcattgccat tgggtaccat gaacccatgc 180  
 atgcagtact gcatgatgca acaggggctt gccagcttga tggcgtgtcc gtccctgatg 240  
 ctgcagcaac tgttggcctt accgcttcag acgatgccag tgatgatgcc acagatgatg 300  
 acgcctaaca tgatgtcacc attgatgatg ccgagcatga tgtcaccaat ggtcttgccg 360  
 agcatgatgt cgcaaatac gatgccacaa tgt 393

<210> 11088  
 <211> 388  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-032-Q1-K1-H10

<400> 11088

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 atgaacaaga gggccggcga gctgacgcct gatgagctgg agcgctgat gacggctgtg 180  
 gccaacctta ggcaattcaa ggtgccggac tggttcctca acaggaagaa ggattacaag 240

gacggcaggt tctcgcaggt cgtctccaac gcccttgata tgaagctcag ggacgacctt 300  
gagaggctca agaagatcag gaaccaccgt ggtctgcgtc actactgggg cctncgcgtc 360  
cgtggccagc acaccaagac tactggca 388

<210> 11089

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-H11

<400> 11089

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caaggatttg gacggggcca tgaagacatc gactgcggcg tggaagggtg ccgtggggcca 120  
ccataccatg aggagtgtca gtgatcatgg tgacaccaag gagctactgc agctactgct 180  
tccagtccta caggccaacg gcgtcgattt ctacatcaac gggcatgacc actgcctgga 240  
acacatcagc agcagagaca gcccaatcca gtacttcaca agcggatgcg gttccaaagc 300  
atggagagga gtgcagaacc ccaccgaaga tgacctcaag ttcttctacg actggcaagg 360  
cttcatgtgc atacagctag 380

<210> 11090

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-H12

<400> 11090

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ggaaaccgac cgccgacgcc gagcaccctc ggttcctggc tttcccggcg cccaatctag 120  
acagctcttt ctggttcgtc tgtatccatg gccgcgcct cgagcaagac catcgctgtc 180  
ctcctcgcgc cgtgtctcct cgcgtctggt gcgtccgcgg tggccagcag gaagctggag 240  
gaggaggacg ctttcctggg aagcctttcg ccggcgccctg ccccgccga gggcggagcc 300  
gcggggctcg ctageggcac gccgggggcy tgggcccgtc ccgctctggt ctctctcatc 360  
gccttcctcg cgaactgagc gggtcctg 388

<210> 11091  
 <211> 293  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-032-Q1-K1-H2  
  
 <400> 11091  
  
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 attgaacaag cccacgttga gcaatggatg gatttttgccg caacagaagt tgatcctggt 120  
 gttgcatggt acttgtatcc aaggcttggg tacctccctt atgttagcac aactgaggaa 180  
 acagctattt cttcattgaa gaggtcgctt ggtgctctga acacacacct tgcttcaaac 240  
 acataccttg ttgggcatgc tgttactcta gctgacattg taatgacatg caa 293

<210> 11092  
 <211> 392  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-032-Q1-K1-D9  
  
 <400> 11092  
  
 accttctgaa accgtgtccg agaaattccc agtctcgacc accgaagtgg aaatggggga 60  
 caagtcagtg gttgaggaag agctgactgt ggcaaagtga agcaagatct caccggtgaa 120  
 gtccaagctt ccctacgagg ctgatgaaga ggaggaagtc gacgagtggc ccgatgacga 180  
 tgacgacccc accgatgagg ctggccaggc ggcgggtgac aggactttgc tagggcggga 240  
 ggaggaggac gtatcgttca gtgatctgga ggacgacgag gacgatgata ggaggtagaa 300  
 ggggatgatg ggcagtagcc aagttggcta ggggaagctc gtactatggt cccggcgcaa 360  
 ccacatgctg gcttcattgg agtaaggccg ag 392

<210> 11093  
 <211> 383  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-032-Q1-K1-E10  
  
 <400> 11093

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ctgcagcaga cgctcaactt cagcaccaac cactgcgcgc gctacctcat gggcaccaag 120  
cgctccatcc ccaacgccgt cgccgcctac gtcgacgtcc ggcacgtcgc gcgcgcgcac 180  
gtgctcgctt acgagcgccc cgagaccagg ggccgggtacc tctgcatcgg caccgtgctg 240  
caccgcgccg acctcgctga catgctcagg gacctcttcc cgcagtaccc cgtcacggcc 300  
aagtgcgagg aggacggcaa gccaatggcg aagccgttca agttctcaa ccagaggctc 360  
anggacctgg ggctggagtt cac 383

<210> 11094  
<211> 391  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-032-Q1-K1-E12  
<400> 11094

eggacgcgtg ggggatgatg gacgtgcagt ccgtcgcgca gcagctgcag atgatggggc 60  
agcttgagcg tgccgctgcc gccagcagca gcctgtacga gccagctctg atgcagcagc 120  
agcagcagct gttggcagct cagggctctca accccatggc catgatgatg gccagaaca 180  
tgccggccat ggggtggactc taccagtacc agctgccag ctaccgcacc acctcctgtg 240  
gcgtctccgc tgccattccg ccctactact gattcatgat atttgggaaa tctcctctat 300  
ccatccctct ctatctatat ctgtaataat gcagtaagac gacacacatt atcatgtgtg 360  
gtagaccaa taatatatgc atgataataa t 391

<210> 11095  
<211> 415  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-032-Q1-K1-E4  
<400> 11095

gtgccccgct actaccgta cccaacgct ggctcgggga tgccgatgct tcctatggca 60  
ggaggtatag gtggtggcgc cgggtgggctc cactcaacg gcgccttctt gttcggcaat 120  
ccgatggccg cgccccagcc catgagcttc taccaccaga tgggcacggg gactgcttgc 180

gctggcggct tcgatgtttc tgcgccggag agtaggccgt cctcgatggt gtcgcagaag 240  
gacgaccagg ctaatggcgc tgagatctcg tcgatgatgt ccgtggccgg ccagggcct 300  
gcgaccacca ccaccataga gatggatggc gtgtggaagt actgaaaacg tggagggtgg 360  
agggcaaaga catgaattcg cataaattaa atatgcatgt aatatctata tctgc 415

<210> 11096  
<211> 243  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-E7

<400> 11096

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ttcttacttt tcggcttggg tctttttttg gttttatata tccatcctat acatatatat 120  
ctaaattcta cattacaatg ttccaaaaaa aatattaaaa ctttcaaatt ttaataaaat 180  
ataattaaca aataataaaa taattataaa aaatttttaa aaaatattaa actaaaaata 240  
ata 243

<210> 11097  
<211> 345  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-E8

<400> 11097

tcaacaactt acaatccatg ttatcataac aagccttcta acacttaggt gtagaactct 60  
tttcgtcatg agctccaacc tgacatatat atttaaactc taattccaat gtcccaaaca 120  
acaaaacaaa catattaaac aaaaatacaa actaaaacac taacattaat aaaaaaaca 180  
ataaaacaac aaaaaaatac aatattaaaa ccaaaaaatt aaacctacaa aaaccactaa 240  
caatccacct atcataatac ctctatcacc ctcaatcctg caacaaacat aacatcttat 300  
aaataaacta cctaacttta atttacatcc cctctttatt aaac 345

<210> 11098  
<211> 392



<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-E9

<400> 11098

cggacgcgtg ggcggacgcg tgggcggacg cgtgggggttg gtgcacacat tagtttgttt 60  
 gtggttttat atgacctagg caattttatc ccagaaataa ttttgtaaa agactctgta 120  
 ctgttctcat gttctgtagc atggtgattt tttgctagat gtcattgttc cttttaggaa 180  
 gatgagatga gatattttga tgtgccctcg tttacaatta ccatgttata gttgctttac 240  
 atttaaaaaa aaaggaactt actccatcag ccatttggtt aaacagcttg tttctgtctg 300  
 agataggaag catgagactt aaaaaatcta ctgaaatcat gttccagggt ttgattgcaa 360  
 ctgcctggat attggctcta atcctattag tg 392

<210> 11099  
 <211> 411  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-F1

<400> 11099

caagaagtgg acaattcatg gcatcagagg gatggccttt gaagagggttg gctgtgggat 60  
 ctctttctgg tcatgagctc caacctgtac atatatatgt aaattctaga ttccaatgtc 120  
 CCAaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240  
 aaaaaaaaaa aaaaaaaaaa agggggggccc tttttaaggg ccccatcttt actaccctg 300  
 gctggcaaat caaaactttt tttatagggc ccccaaatta cattcattgg cccgcttttt 360  
 aaaaatgtca aaatgggaaa aaccttgggg tacccaactt aaatgccttg g 411

<210> 11100  
 <211> 385  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-F10

<400> 11100

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ccgtagcggc gacggcggca ccggtggttg gtgcggaggc ggaggccagg gccagggcgc 180  
gcgccgagag gcggagccgg gccggagagt ctggggcgctg gaagcacgcg gtggccgctg 240  
gcacggccga tgctacgagg aagcggagtc tcggggcagg ggagctgctg gtggcgcgga 300  
agcacggtgc ggcgtcgggt gccggccgca tgaggagat ggaggatgcc gtgtccgtgc 360  
gcgacgcgtt ctgcgcggag ggac 385

<210> 11101  
<211> 327  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-032-Q1-K1-F11  
<400> 11101

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agtgcaacaa cctgaactac ccattccgca cgggtgtgtaa caggaaagga tgctcgtaca 120  
gcaagccagc cccggcgaac aactgaacct aaccttcgcg catcgctcag ctattgttgt 180  
acccgtagat tgtatcctag tcgtgtgcaa tctttgaact gcacaaagat gtttttgtgc 240  
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atgaaaacta gggaagagca ttatatc 327

<210> 11102  
<211> 388  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-032-Q1-K1-F12  
<400> 11102

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atgctcgcaa gctcctatag cttcccttct tccccgtac ctctcaccag cgggtgtcttc 180  
ggtatgtgaa aacccaattc ttcaacccta caggatccaa caggcaatcg cagctggcat 240

cttaccttta tcacccttgt tcctccaaca atcatcagcc ctattacaac agttaccttt 300  
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 ccttgctgcc tactctcagc aacagcag 388

<210> 11103  
 <211> 430  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-032-Q1-K1-F2  
 <400> 11103

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 tctcctccag tgaagccgac agagccagaa ccagaaatcc tcacaaagaa aattgatgaa 180  
 gtgaccacac cttcagtact tccctcagat tatattttca caaacagcc agaacaagtg 240  
 cggacaatct ctccttctga gagtggggca aatattgact tggacgacgt tttatctgct 300  
 gcgcagacag ctgctgaatc agctgagcga gctgcatcag cagcccgtgc tgctgcanac 360  
 cttgcacaac tgcgcatctc agacctgaag aagaatccaa ggtttatagc aattaccgtg 420  
 atagcgtcca 430

<210> 11104  
 <211> 396  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-032-Q1-K1-B9  
 <400> 11104

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 gtccttgggt ctttctgcaa gtgctgtac cgcgaccatt ttcccgaat gtcacaagc 120  
 tcctatagct tcccttcttc ccccgtaact ctcaccagcg gtgtcttcgg tatgtgaaaa 180  
 cccaattctt caaccctata ggatccaaca ggcaatcgca gctggcatct tacctttatc 240  
 acccttgctc ctccaacaat catcagccct attacagcag ttacctttgg tgcatttatt 300

ggcacaaaaac atcagggcac aacaactaca acaacttgtg ctagcaaacc ttgctgccta 360  
ctctcagcaa cagcagtttc ttccattcaa ccaact 396

<210> 11105  
<211> 223  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-C1

<400> 11105

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cttaactact tataataaga acacattgta ttacatata tttctacttc atcttcacca 120  
atatcagtaa ccacctatat catactcact atctatagca cgcaatacta cttacactcc 180  
ctttcaacct cataattata atataccttt acataaattc aat 223

<210> 11106  
<211> 192  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-C10

<400> 11106

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aattaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa 120  
taaaaagaat ccaaactcaa aaaaacgaac aaataactaa ataatatatg aaatcaaaat 180  
acataaaaact aa 192

<210> 11107  
<211> 396  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-C11

<400> 11107

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gggcagacac ccgctgatat ggctgaccaa gacaccgaag ttcgaaccct gttgactgcc 180  
aagcaaattg aggcaagcac acacatgagt gataattaag cggcattgga atccttagtt 240  
gcaactggta atgttgagaa atagccgtaa catcttatct gccatccaaa cttcatttga 300  
actgaagtaa tactgtaatc agactagtat ggaggggtta gcttagctac atgatcatgc 360  
tccttttcct tatcgctgca ttatactaaa gatgaa 396

<210> 11108  
<211> 166  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-C2

<400> 11108

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atgtttgtgg cttcccagaa ataagaaagt acatttctag attctg 166

<210> 11109  
<211> 71  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-C3

<400> 11109

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ccctactata a 71

<210> 11110  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-C4

<400> 11110

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ctgaacactg atcttaagag agaacttgac catttggcta actttcttca agctgctgtt 180  
gactacaaga agaagattgg attcaacgga aactgttga tagagcctaa accacaggaa 240  
cctacaaaac accagtatga ctgggatgtt gcaactacgt ttgcttttct acagaagtat 300  
ggctttaccg gagagttcaa gattaatgtt gagtgcaacc atgctactct atctggacat 360  
agctgccatc atgaactgga gactgcacgc attaatgggc tgcttgggaa cattgatgca 420  
tacactgggtg 430

<210> 11111  
<211> 424  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-032-Q1-K1-C8  
<400> 11111

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ccaacgatca catccattct aggtatcaat ttcgccaaag ttttgctcat cgtaaggaga 120  
aaattggcca cacaaccata gacttgggtg ttgccttaga aaacctggaa acgcaacagg 180  
agggagacct ggcatgtgcc aaaccaatgg aacggttgca ggacgttcgg ggtcatattg 240  
tttgcttccc tttggagtgc atgtgccaaag aggacttgag acctttcttc agtgagagcg 300  
agtattatac atctccacaa gttttccatt agggcttggt cggttatttc aatttcatgt 360  
ggattgggtg gtattggagt gaattaagat gaattttgac ttgctatggg atntaaactg 420  
actc 424

<210> 11112  
<211> 260  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-032-Q1-K1-C9  
<400> 11112

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aatggacag tatcatcagc agaagtatcc aatggggcac ggtagtgtac atcttcaaac 120  
tgaactttct tcataaacag agattaatga ctatatagct ttgctatacc agtcatctca 180

tctttatcat ggccctggaa gagaaattca aatcctagat acctgataat gaacatgata 240  
 tgattgactc acttaaaatt 260

<210> 11113  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-D1

<400> 11113

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 gacggtttcc aagtcgggga agaggacctc ctactgggag ggccaagcca cggccccgga 120  
 cgctgcgggc gcttctggag ccgaagcagc tcccggcacc gcggcagaag cgctcctgc 180  
 tgctgctccg gcggcgccag agatcacccc agccaaagct gacgcctgat cgtcacgcta 240  
 ttattcactc acatgtgatg ctgcggctgc gactcctaaa ccttaaattct agaaatagct 300  
 ggggattggg tttgcattgc atcgtgttct tgccgggtcta gcaagtgact ataagaataa 360  
 tggaataaac gatgaccagc tgtgtgtatg atttccgttc tgaagaacaa cacattcctt 420  
 gcagga 426

<210> 11114  
 <211> 382  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-D10

<400> 11114

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 agcttcagaa cccaaatgat ccttccttct tcatgtgtga ccctcaattg aagaagggtg 120  
 ttggggagga caagctcaag tttgcaatgc tgtcacagag gatattctcag catctgtctg 180  
 ccccgacacc catcaatttg gagcacaaga ttaagctgtc ggggaatgaa tcgcatagca 240  
 gtgcttgcta tgatgtgctg gtggatgttc cctatccgct gcagaaagag atgatggcat 300  
 tccttgccaa cacagagaag cacatggaca ttgaggcctg cgactagggtg atatctgctt 360  
 cgatcatgaa gatccatgag ca 382

<210> 11115  
 <211> 251  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-032-Q1-K1-D11  
  
 <400> 11115  
  
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 tggaaaatgt tggggttgct ctgttgctcg tagtttacat gcgcatgtcg gtatgtgtag 120  
 ctaaagctgg tggatctcag ttctcagatc ggactcgaga cggggaaaac cattgcccag 180  
 ttggctgggt ctctgaagtt ttgtttgggtg taaagaaatg gtggtccatc atctactcaa 240  
 atttttttct c 251

<210> 11116  
 <211> 340  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-032-Q1-K1-D12  
  
 <400> 11116  
  
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 tccatgactc cgacagttgg gtgatacata ccaaagcaa taaacaaacc ctacttttta 120  
 ttttatgttt ccagttaata ataaaccagg ccttagcttc ttggttgctc ttccttggtt 180  
 ggtgttagct tctaagctac tagtacacca ttaaaaaag gaggacctca tgtatggcta 240  
 ccgtgaaaaa tgtgatcttg atggaataat atatcataaa taagcaatta atgatgataa 300  
 aaaaaaaaaa aaaaaataaa tattatataa tgtcacctaa 340

<210> 11117  
 <211> 377  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-032-Q1-K1-D4  
  
 <400> 11117  
  
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cgcccaaccta ttctccctgc cggcggcagc cttaacccta atctcatcgc ctctcttcc 120  
 ttctccagtt cctcgaaggc ccatcagaca acagcccctc tttcttctca gccatgtcgg 180  
 aggaacgaagc gaacgctgct gctgcgccgg cagagggaaa gaactggctg ctgaagggga 240  
 agcacgacaa gccaagccg tgggacgagg accccaacat cgaccgctgg aagatcgaca 300  
 agttcgaccc tgcttgaac gagggcggca tgctcgaagt cagctccttc tccaccctct 360  
 ttccccagta ccgagag 377

<210> 11118  
 <211> 206  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-D6

<400> 11118  
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 caagttctgt tgctgtggc ttgatctgtg gtgattgtat cttcactgtt tattttttca 120  
 ttctgttaaa atttattttt tttttttttt ctttattttt actattaatc tattttattac 180  
 tattaatatt tatttatctt atttta 206

<210> 11119  
 <211> 222  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-D7

<400> 11119  
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 aatcatatca actttaagac tagcttaact attctcaatt tcattataaa ctacatatca 120  
 atacataact acctctccta cctctacaat cataataaaa tttccaacat atatacaatc 180  
 ctcaatctta ctctctcata catcctacta tattaacatt ct 222

<210> 11120  
 <211> 379  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-A2

<400> 11120

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accgTtagac tgtagtgTga catcctaaat attagctcca ctgtcaactc caaccctgat 120  
tctcacactc acaatttgat tgTtggaatt ctaattgtgc tttagggttc tatgtgaaga 180  
tacaaaaaaa tattgcattc ctattctggt cccgtattga aattgccagt ggtccctctg 240  
aattttgatc caattgttat aaatttcaga tgaactgaat aaaactacta cttgtaggca 300  
aacaataaaa ttgtacgggc atttgagagag aagagagtag aggataatTT gaagaaccac 360  
gtggacTTTT gcaggatgc 379

<210> 11121

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-A3

<400> 11121

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actgacctgc ttgTctgtgg tattgatgtt cagcaggtgt ccctggTcat caactatgat 120  
cttcccaccc agccagagaa ctacctgcat cgtattggTc gtagtggtcg ttttggtagg 180  
aagggtgttg ccatcaactt tgtgaccgc gacgacgaac gtatgctgtt tgacattcag 240  
aagttctaca acgtgttgat tgaggagctg cctgccaatg ttgctgacct tctgggatca 300  
atttgagaaa aaacataaca aaaaaaggTg gtgagggaac ccggtaaggg attggttttg 360  
tcg 363

<210> 11122

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-A4

<400> 11122

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tgggcttggg cgcacgccag gcataaaggg aaggctctga acacgttata ttcaaaaggc 120  
 aagacaacat cttctaaaag cctggtgcga caagcccacg gtagttgccca attgcgtaca 180  
 tgcatttgaa cagatctggg ctctaaaaac tgctaacttg gtagcagaaa gattgatgca 240  
 ttgcatatca taccactgga tcaaagagtt tagtgaatgg ccacaatgca tgttcttgag 300  
 ttggcatcaa agttccttcc atataataat aacaaaatat ttgacataat gaatctgttg 360  
 gaggatagac ttcaacatgc aaatggaacc gttgttttgg caacaatt 408

<210> 11123  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-A7

<400> 11123

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 agtctggaag gccagatatg gcggcacatt taggtagtca gcattgtcga ggaaccctac 180  
 taatgtctaa tacttcctct gttttttatt tgtcatgttt tagtaaaaaa taaattagcg 240  
 ggcgataaat attcgagaac ggatgtagta ttttttatgt acagggttcgg ctgcagtttc 300  
 ttgtatcact tttgctgtgt tgtgttgac atacggtgtt ttgcttccaa tgaattagga 360  
 aagggtttag aggcttagag ccaccgtgtt actgattagc gttatgggct gtgtcaggtg 420  
 cattatgc 428

<210> 11124  
 <211> 409  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-A8

<400> 11124

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 agcggattaa catataaccc caaaactaga cttttgtgtg tccccagacc caaactgtga 180

tatatgtgcc ctctctgagg ctcttgagga aaccttggtg tgctacagtg cataactacta 240  
tctgtatagt ctgctgatta ttcactaacc aggtcattgc ccaacttgaa ctgtggaagg 300  
agaagagctc tggcaagtat gagaagaagg tgtatgtgct cccaagcac cttgatgaga 360  
aggttgctgc tctccacttg ggcaagcttg gtgccaagct gaccaagct 409

<210> 11125

<211> 394

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-032-Q1-K1-A9

<400> 11125

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tttgccctcc ttgccctcct tgctctttca gcaaacgttg ctaccgcgac tattattcca 120  
caatgctcac aacaatacct ctctccggtg acagccgcca gatttgaata cccaactata 180  
caatcctaca ggctacaaga ggccatcgca gcaagcatct tacggtcggt agcattgact 240  
gtccaacaac catatgccct attgcaacaa ccataccttag tgaatctata tctccaaaga 300  
atcgtagcac aacaactaca acaacaattg cttccaacaa tcaaacaagt agttgcagcg 360  
aaccttgatg cttacctnca gcaacaacaa tttc 394

<210> 11126

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-B1

<400> 11126

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gtcatgaaga gtgcattact ggctgcacaa tctagtaatg atactctttt gaagacaact 120  
gctgacgcac ttggcaagtg gaaggatctt ttgcgcaatt acaccaagac agttgatgaa 180  
gagatggaga tactttttaa gtttgaggaa atgtgtcaag agaccacaaa agatttttct 240  
ccgctgtttc caaagatctt gccatacctc tatgatacgg aggtagtaag tgaagatgca 300

atTTTgagat gggcggaaga gaaagaacat gctgatgagt ctgataaagt ctttgttaaa 360  
 cagtcagaag cttttattca gtggctcaag gaagctgaag aggaagatga cgaagaag 418

<210> 11127

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-B10

<400> 11127

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 atacgtgatg ttcccagcta atccaaaggt ccctccttcg gatgcttgct gtggtgtcat 120  
 caagaaggca aacgtttctt gcttggtgctc caaggtcacc aaagaaactg agaagggttg 180  
 gtgcatggag aaggttggtg atgttgctga gcagtgtgag aggccatttg agcatggctt 240  
 ccagtgcgga agctacaagg ttccagcaaa ctgatgatat cacaagaggg aagcgcttga 300  
 cgtagtcttt agatttcaat tgttgagcc gatcaacctt cttagggttg tataatatga 360  
 agtcaatgtt gagactaatg tgaggtggga ga 392

<210> 11128

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-B11

<400> 11128

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 ccatectcaa ctccgccacg gggctgggag ggcggcgagc cacggccggc gcggcgggtg 120  
 agaaggcggc ggcggcagct gagaagacg tcttcgagct gcggctggag gcctacgatg 180  
 ctgcgagcaa gatcaaggtg atcaaggaga tccggtcatt cactgacctg gggctgaagg 240  
 agccaagga gctggcggag aaggcgctg cggcgatcaa gggaggccta tccaaggagg 300  
 aggtcaggc gattgtcgag cgaatgaagg cagtcggcgc caaggctatt attgactgat 360  
 cagaacaagc cttttcagtg gtgaagtcct gcaaat 396

<210> 11129

<211> 390  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-032-Q1-K1-B12  
  
 <400> 11129  
  
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 gacaagggtga gaaagatggt gtacagaaac agggatgaat tcaggcacga cgtagcacag 120  
 atacaactca atgcacacat atacaacgac actcgctatc ctcacatccc tccgcttgct 180  
 gacgagctca tggaggctctg cgaccatctg ctttacgaaa acgcagatct gctcaccgag 240  
 gcggaagatg ctatcgagta gcaatataaa aagctagatt tagcatttgg atcttgctat 300  
 atcctaacat agatgatgta tctatcttct gatctgtaag aggggaaaag gttgtacatt 360  
 ttttgggcct agcagcaatc tacatgtgat 390

<210> 11130  
 <211> 389  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-032-Q1-K1-B5  
  
 <400> 11130  
  
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 gctgcatcgg gaaacccaag aagtcaccgt cgtcgccgag aaggccatac ctctcgctct 180  
 attccgagga ccaccagaac tgccgcttga tctgtagctc gaagggtttc aaggacggtg 240  
 gctggtgtga cgaaagcgtc gagcaciaag tgtgctgctg ctccattag aaatataata 300  
 tcgtatgtta tgttgatgca tatatatgca tcatccatct acctgtgtgg tgcaaaattc 360  
 tgaataaaat ctacctgtgt ggtgcaaaa 389

<210> 11131  
 <211> 174  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-032-Q1-K1-B6

<400> 11131

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tcacctatctt gtgtaagaa gacgtagttt ttaaattccat tgctccttcc tggt 174

<210> 11132

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-B7

<400> 11132

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aagaaggcct tgaactattg aaggcagcca tagaaaaggc tggctacact ggaaagggtg 120

tcattggaat ggatgttgct gcttctgagt tcttcggtga gaaagacaag acttatgata 180

ttaatttcaa ggaggagaac aacgatggct caaacaaaat ttcaggcgac agcctgaaag 240

acctgtacaa gtcctttggt tctgagtacc ctatcgagtc gatcgaagat ccatttgata 300

aggatgactg gagcacttat gccaaactca ctgatgagat tggacagaaa gtgcagattg 360

taggagatga tcttctcggt accaacccca ccagggtcgc caaggccatc aatgagaaga 420

cct 423

<210> 11133

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-A12

<400> 11133

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gatagagaat ccagtatata aatcgactca attcactgaa aaaaaagcaa gatgaattca 120

ttagctgacg acacaaaaac agctaaaaaa agaaaagctc ttactcctct acaaggacca 180

acgtgctcgc ccgcgctgcc atcaccaagc cagggtggagg acatcaacga aacttctgaa 240

aagcattatg cagccctaaa taacaagata tcagcactgg aaagcagaag agaaccagga 300

actatcacag atgcatcaga ttaattctga gttgggctta tgtcatgggtt acatctgccc 360  
atgtgtccct gaatgctgca tgccatataa actgca 396

<210> 11134

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-G2

<400> 11134

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tcaagtagca ccacccaccc ccgactcatc ctcgcaaccg tcatactgct ctccgtgctc 120

gcagctgcc aacaccagcgc cgacacctcc tgcattgccg ggttggccat cccatacaac 180

c 181

<210> 11135

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-G4

<400> 11135

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aacaatggca ggcaaaagat tttgcctcct tatgtctcctt ggtctttctg caagtgtctg 120

tacggcgacc attttccgc aatgctcgca agctcctata gcttcccttc tcccccgta 180

cctctcacca gcggtgtctt cggatatgtga aaacccaatt cttcaaccct acaggatcca 240

acaggcaatc gcagctggca tcttaccttt atcacccttg ttcctccaac aatcatcaac 300

cctattacaa cagttacctt tggatgcatc attggcacia aacatcaagg cacaacaact 360

acaacaactt gtgctaacia accttggatg ctactctcag caacagcagt ttctttca 418

<210> 11136

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-G5



<400> 11136

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tgggacctca ctactatgg agttgacatt gataggaaga agaaaacccc tgctgcaaag 120

aaggataatg ctgaaggaca agaggttgat gcatcagctg acgaaacgaa aaagagcaac 180

catgtcacga ggaagcttga gaagcgcaag gagggactta cccttgaccc acacattgag 240

gagcaatttg gcagtggacg gttgctggca tgcatttctt cccgccctgt acaatgtggc 300

cgaactgatg ggtacatact tgaaggtaaa gagcttgagt tctacat 347

<210> 11137

<211> 149

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-G6

<400> 11137

caaccgcac ctgtttcgct ctgttagcgg agccatctcc tgaagctagg tcagtacggc 60

aggggcgccg gccctacact atccggacgc acttgatggc cggcagcatc agcgactact 120

ccatggccag tgtgttccaa tttatcatg 149

<210> 11138

<211> 180

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-G7

<400> 11138

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aatgcacgaa gggtttcaac agatagggcg caaggactac gatgtactct atatggacaa 120

gctttacaga tagcactgca agaataagtc gcacaaacac aactacacac accacattaa 180

<210> 11139

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-G8

<400> 11139

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atcacacggt ggagtggctc cagaaagttg cacacgagta aaaggacggg cctcggacct 120

ccacaagatt ttgtcaacgt attttttgta tcaaagaat cacattaacg agagagaacc 180

ctgtacttag caataaaaga ttatatcaac atatcttgct catgttaagg ggccgaattt 240

tttgtatttt aatccttttt tcgaaacaat ttcacgttta aaaaaaaca aa 292

<210> 11140

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-031-Q1-K1-G9

<400> 11140

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taatgaacgc atttgttact tcaatgggct tcgaacacct agctgtgcaa gccaacatgc 120

aacaacaagc gcttgcgggc agcggttttac aacaaccaat tgcccaattg caacaacaat 180

ccttgccaca tctaacaata caagccatca caacgcaaca gcaacaacag ttcctaccag 240

cactgagcca cctagccatg gtgaaccctg ccgtctactt gcaagagcag ctgcttgcac 300

ccaaccact tgctctggcg aacgtagttg caaaccagca acaacaacag ctacaacagt 360

ttctgccaac gctcagtcac ctagccatgg tgaaccctgc cgnctacgta caacaacaac 420

aactg 425

<210> 11141

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-H11

<400> 11141

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cgtgcactgg tacgtcgggtg aggggtatgga ggagggcgag ttctccgagg ctctgtgagga 120

tctggcggcg cttgagaagg actacgagga ggctcgggtgct gagtttgacg aggggtgagga 180

cggcgacgag ggtgacgagt actagacgct ctactggcgc ggcgtcgtcg ggcttggtgtg 240  
ccactgctat cctgtgatct gccctgagtg gctcctatcg tgttatgttt ctgtcggttc 300  
ttatctatct gtcgttggtt gggtttacaac ttacgttgta agactttatt cccccgcttt 360  
gctactgggt tattaagttt ggcgttattg gtttctt 397

<210> 11142

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-H12

<400> 11142

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ggacttctgt gtcgagccag ctgatgagag gaagcctttg cgtgctctct cggatgatgg 120  
ccttatcagg actacaacag ggtaccatgt ctttgggtgcc ctcaaggag cattggatgg 180  
aggcctggat attgctcaca gctagaagag gtacgctgga ttcaagaagg acgacaagca 240  
cctgtatgct gatacccacc gcacgtacat gtatggaggc catgatgctg actacatgaa 300  
gaaccttgct gaagaggagc cagataagta ccacagccac ttacatgcgt acattaagaa 360  
gggagttgag gctgatgaaa tagaagcgt gtacatgaag gttcatgc 408

<210> 11143

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-H3

<400> 11143

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ctgtttcggg gtgagcggat cgatatggcc gcgtcgatgt tgataccgct gcttcgtcgg 120  
cggctcgcgc tgggccacgg acgaccactc cctacacaac gccttcagca cctactgcga 180  
ggtcctcgag tccaaaatca tctcgcgtcg gcagacgcgt aagtacctcg gcttcgcgtt 240  
cgtcacct 248

<210> 11144  
 <211> 156  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-031-Q1-K1-H6  
  
 <400> 11144  
  
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 tcatgaagtg tgatgttgat atcaggaacg atttgt 156

<210> 11145  
 <211> 349  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-031-Q1-K1-H8  
  
 <400> 11145  
  
 aaacacacca agcgaagcta cctatcaacg acttaacaac aatggctacg aagagattag 60  
 ccctccttgc gcttcttgcc ctttttgtga gcgcaacaaa tgcgttcatt attccacaat 120  
 gctcacttgc tcctagtgc attataccac agttcctccg accagttact tcaatgggct 180  
 tcgaacacct agctgtgcaa gcctacaggc tacaacaagc gcttgccggc agcgtcttac 240  
 aacaaccaat taaccaattg caacaacaat ccttggcaca tctaaccata caaaccatcg 300  
 caacacacca gcaacaacag ttctaccag cactgagcca actagatgt 349

<210> 11146  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-031-Q1-K1-H9  
  
 <400> 11146  
  
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 ctgccgggct gccgcgggga ggtgcagagg ggattcgccg ccaccctcgt cacggaggcc 120  
 gagtgcaacc tggccaccat cagcggcgtc gccgaatgcc cctggattct cggcggcgga 180  
 acgatgccct ccaagtaact gcgaagagca tagtgcata ggaatgagct tgtagctagc 240

tcatatgtct gaataataag cacagcaaga agatgaatgc atttctcgga tcgctcatcc 300  
 ggaacaataa ttaaagggga tccggatttg ctcttgatgat actaataacg attcctgcta 360  
 tactcggaag cagctaggct cgtgcccacg caatgcatgc atagatctga cctaccataa 420  
 aaa 423

<210> 11147  
 <211> 408  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-031-Q1-K1-G12  
 <400> 11147

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 aactgaacca aatcagcaga gcaagcatgc gttaactggc tcatttgaga aagtcctga 120  
 cattgagtct gttgggtctt ctgctgagaa atctgtcggc acaggtgatg acttgcttca 180  
 atctggtaaa ggtgcttgcc actcagaaat accagtcgat atcatagctc agctgcaact 240  
 tgacctacc tctggaacgg cagatcatcc ggcaatctcc aaaggggcag acaattttga 300  
 aggacaacat tatcatacaa cagatgaaag catcggagca ataccaagta catttgaacc 360  
 tgctgttggt gccaaagttg tatcagttga tgtcactgct gaccttac 408

<210> 11148  
 <211> 379  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-032-Q1-K1-A10  
 <400> 11148

gggtgtcgag ggtgcaacac agcagtgaga ttctttttga actcatccgc tttctcgggc 60  
 tccaacacag cagtgcagaga aagcggatga gttcaaaaag ggtgtcgagg gtgcaaccaa 120  
 gtttctcctt agcaagctga aggacctcca attttttggt ggtgagtcca tgaaggatga 180  
 tgcgtctgtg gtattcgctt attacaagga tgggtgccact aatccgacat tcctctatct 240  
 ctctcatggc cttaaggaga tcaagtgcga ggcgtgcggc gaaattagtt acccatgttg 300  
 ggtactatct atgtactatt attatatcca aaactatagt tgcctgggct gaattgaact 360

caaaagggtt tgtctgaga

379

<210> 11149

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-A11

<400> 11149

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gatatagagg agagacgaga gcgggatggg gtacctgtgg aggggtgcggc tgtcttcatt 120

tgctgccggc gcggcgacgg cttcggcggc ggggttcttc ctctctaca aggaccacgt 180

gctcgcccgc gctgccatca ccagccaggt ggaggacatc aaggaaactt ctgaaaagca 240

ttatgcagcc ctaaataaga ggatatcagc actggaaagc agaagagaac caggaactat 300

caaagaggca tcagattaat tctgagttgg gcttatgtca tggttacatc tgcccatgtg 360

tttttgattg ctgcaggcgg tataaactgc agcattt 397

<210> 11150

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-E12

<400> 11150

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aattaccatt cagccagcta gttgctgcct acccccagca atttcttcca ttcaaccaac 120

tagcagcatt gaactctgct gcttatttac agcagcaaca actactacca ttcagccagc 180

tagctgatgt gagccctgct gccttcttga cacaacaaca gttgttgccg ttctacctgc 240

acgctatgcc taacgctggc accctcttac aactgcaaca attgctgcca ttcaaccaac 300

ttgctttgac aaactcaaca gtgttctacc aacaacccat cattggtggt gccctctttt 360

agattgctta tgagttatag ttcaataatg aagttttttg gatgatgttt gtggc 415

<210> 11151

<211> 301

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-031-Q1-K1-E2  
  
 <400> 11151  
  
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 aggagcacga cgcgatagtc aggtcaacgg gtggagcgcg caccctaaga actacggccc 120  
 tggctcccgc gtctgccggg tctgcgcgaa ccttcacggt ctgatcagga agtacgggct 180  
 catgtgctgc aggcagtgct tccgcagcaa cgccaaggac attggtttca tcaagtaccg 240  
 ttgaagaggc cactgtgctg ctgtggagaa ctttctacat caaagaaatg ggttcttcat 300  
 t 301

<210> 11152  
 <211> 252  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-031-Q1-K1-E5  
  
 <400> 11152  
  
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 cgcattcggg tcacagggtc tccgtcgttt cccaacgcgc tttccccggc gccatggcca 120  
 ggctggcgct agegctccta ctgctgctgg ccgtggcggc atccgcgtgg gccggcgccg 180  
 gcgcgagcca cctcgatctg ggcttgggct ttctatgctc cggggaccgc cggcggaat 240  
 gccgaggcac gg 252

<210> 11153  
 <211> 299  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-031-Q1-K1-E8  
  
 <400> 11153  
  
 ggcagccaaa atattttttc tttttatgct ccttgggtatt tctgcaagtg ctggtacttc 60  
 gaccattttg ccgcactgct cacaagctcc tatagcttcc cttcttcccc cgtacctctc 120  
 accagcgggtg tcttcggtat gtgaaaaccc aattcttcaa ccctacagga tccaacaggc 180

aatcgagctt ggcatcttac ctttatcacc cttgttcctc caacaatcat cagccctatt 240  
acagcagcta cctttggtgc atttattggc aaaaaacatc acgtcacagc gactacaac 299

<210> 11154  
<211> 337  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-031-Q1-K1-E9

<400> 11154

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tctggagggtg ctgctaccgc aaccattttc ccacaatgct cacaagctcc tatagcttcc 120  
tttcttcccc catacctctc accagcgggtg tcttcagtat gtgaaaaccc aattcttcaa 180  
ccctacagga tccaacaggc aatcgagcta ggcatcttac ctttatcacc cttgttcctc 240  
caacaaccgt cagccctatt acagcagtta cctttggtgc atctgttggc aaaaaacatc 300  
aaggcacaac aactacaaca acttgcgcta agaaacc 337

<210> 11155  
<211> 83  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-F1

<400> 11155

accatcttac aactacaaca attattaacc ttacacaaac ttactctgac aaaccaaca 60  
acctcctacc aacaacacat tat 83

<210> 11156  
<211> 424  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-F10

<400> 11156

gcacaatagt gtaccaacaa tggcagccaa aatattttgc ttccttatgc tccttggggt 60



ttctgcaagt gttgctaccg caaccatttt ccacaaatgc tcacaagctc ctatagcttc 120  
 ccttcttccc ccatacctct caccagcggt gtcttcaatg tgtgaaaacc caattgttca 180  
 accctacagg atccaacagg caatcgcaac aggcatttta ccattatcac ccttggttcct 240  
 ccaacaaccg tcagccctat tacagcagtt acctttggtc catttggtgg cacaaaacat 300  
 cagggcacaa caactacaac aacttggtgc agcaaacctt gctgcatact ctcagcaaca 360  
 tcagtttctt ccattcaacc aactggctgc attgaactct gctgcttatt tgcaacaaca 420  
 atta 424

<210> 11157  
 <211> 305  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-031-Q1-K1-F11  
 <400> 11157

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 gctggcgata tgcttgatcg tctcacgctt acttacaaca ggacacgccg agcatccatc 120  
 accacagagc ttactgagat tatatctggg gcatcagccc ttgaaggata ggccaacgac 180  
 agtgatgatg ccgtgcgcct ttgcatattg caaaaatgat gttctacatc tatgggtgaat 240  
 ggctgggtttt cataaatggt gatgatcaat atatgtatct tgcacatgat tagcaagtgc 300  
 acgtg 305

<210> 11158  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-031-Q1-K1-F12  
 <400> 11158

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 gatgggagta gaggctgatg aaatacaatc gctgtacacg aaggaccatg ctgacatcac 120  
 gagccgatcc ttccattgat aagatcaacc gaagcagtca ccaattgagc gtaagaggta 180  
 caacccaag aagctgacat atgagcagat gaaggccagc ctaattgaaa ggctcaacca 240

actcaactgc tccggagggtg ctgatgacaa cgatgaggac gactagtaaa ggtaattgcc 300  
atcgaagtag tgctatctca atccagcgat cagcaattgt gtactgtctt atgcggggac 360  
ctgtagtact gcaataggca ttattgttta agtcttgcca agggaacaaa ac 412

<210> 11159

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-F2

<400> 11159

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ctggaggggt ggactcgctt tgccgtgcag gaatggaaga gcgagcttat gagatcatac 120  
aggggatgcc aatgagacct tccatttctg tctggggagc actacttggg ggggtgcaaga 180  
tgcattggaa gacagagcta ggaaggattg ctgctgacaa gttgtttgaa cttgatcctc 240  
aagatttatg caatcatgtt ttgctctcta acatgcttgc atctg 285

<210> 11160

<211> 217

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-F7

<400> 11160

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caccacaacc agtcggctcc ccctacctcc caccccaacc acacattcaa catcttctgc 120  
cacaccaacc aaaactactg cctgaccact cttaacaaca ccaccatact ctcccccatc 180  
aaccceaaat actaccacca acactaatac aaataca 217

<210> 11161

<211> 210

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-F8

<400> 11161

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tagatctgta tgaagttgac ggccggatat ccttcttcac gcctgtataa gatgttgaaa 120  
ggatctgaat ggccgaacat caccctaacg accgccttcc tgtttcctgg gattgctatc 180  
agtattccct tcatccttaa tgctctaata 210

<210> 11162  
<211> 284  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-031-Q1-K1-F9  
<400> 11162

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gatcgtggag cgtgctgcgc agctcgacat tgtggtcacg aacaagcttg ctaggctccg 120  
cagccaggag gacgagtagt ctgggttctt gtcttaacga cgaactggat gttgccattc 180  
ctttctgtag gaaactactt tgcttgtgtc ttgttagtac tgaaaaccag agtcactcct 240  
acctttttgc aatcagtagc tactaaaatg tggcagattc cact 284

<210> 11163  
<211> 288  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-031-Q1-K1-G1  
<400> 11163

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tgcgaggtga tggcgatgga ccctgacgcg gtagcgaagg ccttcgtgga gcattactac 120  
cgaacgttcg acaccaaccg cgcgggcgctg gttgggctgt accatgagac ctccatgctc 180  
accttcaagg gccagaagtt ccagggcccc tccgtcattg ccggcaagct cggatctctc 240  
cctttccagg cctgctagca tcattattct accgttcact gtcattcca 288

<210> 11164  
<211> 411  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-G10

<400> 11164

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acccaagaat cagcactacc ggaaggaaca agcttgatca gtaccaaatt ctcaagtatc 180  
ccctcaccac agaatcggcg atgaagaaga ttgaagataa caacactctg gtcttcattg 240  
tcgacctcaa ggcagacaag aagaagatca aggctgctgt caagaagatg tatgacattc 300  
aggccaagaa ggtcaacacc ctgatcagac ctgatggaaa gaagaaggct tacgtgaagc 360  
ttacgcctga ctatgatgct cttgatgtgg ccaacaaaat cggcatcatc t 411

<210> 11165

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-E1

<400> 11165

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ttaccaagat aggttccttc cttatgctcc ttgatattta tgcattgtatt gctaactcca 120  
caattcatcc cttaatgttc aaaaactcct atagcttccc ttcttaccac ataccttcca 180  
tcaa 184

<210> 11166

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-G11

<400> 11166

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tgccgaagct gttgggttgc tcatgctcgc tatgtccacg ctgctttacc ggagtggaa 120  
acgtcaagac gcagtggaaa agctcaaagc aaccaacaa gttgccccctt ctgcagtttt 180  
tagagttgca gcgtgggaag cactaatggg attacacatg gaggcagggc aggagatgtc 240

atacttgatt tccccaaatg attcagttga tctgtcaatc aaatatgata gcaaattggtc 300  
 tgatcaggac catcttaaat ttcgggttaa tgctgtcaga ggacttgta cacttctgaa 360  
 tggagaaaca gaatcagctg cccagctggt cgatgggttg tgcagagact tttctagagg 420  
 cgaaa 425

<210> 11167  
 <211> 316  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-031-Q1-K1-B2  
 <400> 11167

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 ctgatgtcaa tacagtagca tttgctgatg aaaccggcca tctcatatat tctggaagtg 180  
 acgacacttt atgcaaggtc tgggacaggc ggtgtttgtc cgcatgacag gctgccggag 240  
 ttttgactgg acatttgcac gggataaacac atattgacag tcgtggacat ggacgaagtc 300  
 tcatatccaa tggaaa 316

<210> 11168  
 <211> 187  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-031-Q1-K1-B4  
 <400> 11168

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 aatgatcgat ttttttggat gatgggagcag ccattccaca aataagaaag tacatttcta 120  
 aaaaaaaaaa aaaaaaaca aaacaaaaaa aaaaaaaata aaaacaaaaa aaaatataat 180  
 acacaac 187

<210> 11169  
 <211> 213  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-B5

<400> 11169

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aaaaaaaaaa agaaaagaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa 120  
aaaaataaaa aaaaaaacia aaaaaaacia cacaaaaaaa aaaaacataa aaaaaaaaaa 180  
aaaaaaccta aacaaataaa aaaaaacaat aat 213

<210> 11170

<211> 176

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-B6

<400> 11170

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catgatcatg gtcataaca tgtctatcat gattgtactc taccaatacc atctgcccac 120  
ctaccgtacc aacccttgta gcatctcctc ttccatttct acctactact gattca 176

<210> 11171

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-B7

<400> 11171

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tgatcgacca gaacagggca cttctggatg cccctgatat ggtcagggtc caggatgaact 120  
tcaagcggct ctacttact gacatcaaga ttgacatcaa acgtgtcccc aagaagacag 180  
ccctgatcaa ggcatggac gaagctgatg tgaagaccaa gtgggagaac agctcatggg 240  
gcaagaagct gattg 255

<210> 11172

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-B9

<400> 11172

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tgttgatttg actatggaac ataaggggga gatgaagggt gtggtcagga cagttatttc 180  
actaccaag gaggaggaga aagaactcaa ggaaaccttg caggatatcc ttggggaaaa 240  
caaaactatt ttggttgaac agaagattga ctacagcatc atgggaggat tagtgattga 300  
attcgggcag aagggtgctt atattctcaa 329

<210> 11173

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-C1

<400> 11173

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gtctaccccg agcaactact tccattcaac caactggcag cattgaactc tgctgcttat 120  
ttacaacaac agcaactacc accattcagc cagctagctg atgtgagccc tgctgccttc 180  
ttgacacagc aacagttgtt gtccttctac tcgcacgctt ctctaacgc tagcaccctc 240  
ttacaactgc aacaattgct accattcaac caacttgctt tgacaaacc agcaggcgctc 300  
taccaacaac cca 313

<210> 11174

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-C11

<400> 11174

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ctcaacacct tgatgaacat gttcagcggg cttggtgctg gtggtggcct aggtgttcca 120  
aatgtctcta atgcaccgcc agaagaactg tacgccacac aattagctca gctccaagaa 180

atggggtttct ttgacacaca agagaacatc cgagccttgg ccgctaccgc tggaaatggt 240  
catgctgcag tggagcgcact tcttggaat atgggctaata agaataatgat gatcataact 300  
gtactcagat attgtgattt ttattcatcc ttgatca 337

<210> 11175  
<211> 259  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-031-Q1-K1-C12  
<400> 11175

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gaagcccgtg gaggagtgcg ggcagccggc ggacttcctc ccggactcct cgtccgagat 120  
gttcggggcac caggtccgcg agctgcgcgc ccgcgcgcgc gggcttcccg acgagtactt 180  
cgtcgtgctc gtgggcgcaca tggtcacgga agaagcgcgtg tccacgtacc agaccatgat 240  
caacacgctt gacgggggtc 259

<210> 11176  
<211> 358  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-031-Q1-K1-C2  
<400> 11176

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agattcgatg gggcactcca acgtgtgggg ctgcacccc aagaactacg ggcccggatc 120  
ccgcgtctgc cgggtctgtg cgaaccctca tggactgatc aggaagtacg ggctgatgtg 180  
ctgcaggcag tgcttcgcga gcaacgcaa ggacattggc ttcacaaagt accgctgaag 240  
tcagctgggc gggctatctg aatgccatct cttggacagt gtagtagaag cgatgccaca 300  
attttaatta ctgtcattta gatgttcctt tggagactct gctatttaag ttccccat 358

<210> 11177  
<211> 206  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3059-031-Q1-K1-C6

<400> 11177

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tctgttgaat ctgtttcttg acctcccacc ataatcaaga tcactactga attttttact 120  
aaagagccaa ggcaaaccat gaatgcaact gagtgtgttg cacaacgatg tgctcttcaa 180  
tatgctattc tcagtcccac tttcaa 206

<210> 11178

<211> 160

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-C8

<400> 11178

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caggccaagg agcttctgta gcatggcgag aacgtgctgg ccaacgaacc cgtggtggtg 120  
aagagaggcc agcacatcgt ggaggtgaac cccagggca 160

<210> 11179

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-D10

<400> 11179

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gctactgcaa agcaacaagg aaccagtggg attcaaggag cagcttcttc tactgacagt 120  
aaattcagtg gcaggaaaga acttccagcg gatattctta ctgcactata tccaccatca 180  
actccaatga tgcttggttg gcagagagcc cccattttg gaatgggata cgccgtgcaa 240  
tatccacctg gagtgttcca gggaatgcaa gcatatcttc agcctacata tcagcaacct 300  
gtatattccc aacctgcata ttcccacccc caacctgtga aagcttcaaa cccttttgat 360  
cttgggaatg ggccagctcc aactcaagct cacatgcccc catctggacc accaggagta 420

<210> 11180

<211> 425  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-031-Q1-K1-D11  
  
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 tgctcacaac aatacctctc tccggtgaca gccgcgggat ttcaacaccc aactatacaa 180  
 tcctacatgc tacatgaggc catcgtagca agcatcttac ggtcattagc attaaccctc 240  
 caacagccat atgccctatt gcaacaacca tccttagtgc atctgtatct ccaaagaatc 300  
 gcgacacaac aactacaaca acagttgcta ccaacaatca atcaagtagt tgcagcgaac 360  
 cttgctgctt atctccagca acaacaatct cttccattca atcaactagc tgggggtgaac 420  
 cctgc 425

<210> 11181  
 <211> 356  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-031-Q1-K1-D12  
  
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 ccctttgcc aatagcattgg tagagaacag tggaaggtgc aagactaacg agcatgggga 120  
 gaagatactt ccggatggaa ctccgtgggt tccaaaactg atgaaagaaa ttacttgcca 180  
 tatctcaaac tggagcaagc ccattcatgt tgatcagaac ttaattgatg gttcaaacc 240  
 taacaatcgc tggaagatgt tcataccaat tatacttgct gtggagtact tcttggtagt 300  
 aaaacgaatc cggacggcga tccatgcaga tatcgcatat ggggaaggtgg atgact 356

<210> 11182  
 <211> 231  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-031-Q1-K1-D5

<400> 11182

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gcagggccgg ctatgttggt gctgcctacc tgcttgctat tctcgctggg aatgccagcc 120

cctccgttca ttatttgact ggcattctgg actcagctga ctaagaagat gacaatgaat 180

agatggaact gctgctgtcc caactgacct gtaaggacat taccgatctc a 231

<210> 11183

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-D9

<400> 11183

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accaatggga gccaaagagg ctagcctact tgccctcggt gctctttcat caagcgctgc 120

tacctogact tttattccac aatgctcaca acaataacct tctccggaga cagccgcgag 180

atttcaatac ccaactatac aatcctacat ggaacaagag gccatccaag caagcatctt 240

acggtcatta gcattaacct tccaacaacc atatgctcta ttgcaacagc catccttagt 300

gcatctgtat atgcaaagaa taggggcaca acaactacaa caacagttgc taccaacaat 360

caatcaaata gtagcagcga accttgatgc ttacctagag caacaac 407

<210> 11184

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-H12

<400> 11184

agactaccga gcagattgca tgtgatgtgc agatgggctg ccagcgctgg tactgtccat 60

cgtgcctctg ccgtgtctgc ctgtgcgaca cgtacgatga ccagatcatc ctgtgcgact 120

gctgcaatca tggctatgat ctctactgac tcagtcttgc aagaggaaca gtgctcaatg 180

tgcatgcaa ctgctaacct tgcaaggagc cgatggagaa ggagaacagg atactgatgc 240

tccacacgaa ggattactat gaagacatcc tgaagagtgt cgagttgcat gtaccgaact 300

tgctgcttaa ggccgcgaaa aacgtgaagc gcgatgagga gg

342

<210> 11185

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-H2

<400> 11185

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tctaccttca tttttttgcg gtttttgggt tgcctgtgag gtgttggtgt tcctgagtat 120

cttgtcaggt aacatgatat ttcataattta ctcttgaaa taatagcttt tgtatatggt 180

gaaccatgca caattaaaca tagtggctgg gggagggtgtt cttatttctg aattgattca 240

agacatcgat actcccttag ccaaggggtga aagggtata aagccaagaa gacgaagaag 300

ggtgaagaat tcaggttttc ggaagcaata gtgaagacta ttttttggct tctctttgca 360

atatgcttta ttgggattgg atcctcgatc actgctatta ataatctaa 409

<210> 11186

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-H3

<400> 11186

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cgaacaaatt cacataatac ttcaaatacca ctctcagaaa cttaagacat acaataccaa 120

gcaccataca caaccaaacc atactcccaa agtcaagcct ccctactcta ctatggactc 180

actaaccact gatacccata tacaatgaca ctacatccca attactcaac a 231

<210> 11187

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-030-Q1-K1-H4

<400> 11187

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 tgccagtcgt tgcggcagca gtgttgccag cagctaaggc aggtggagcc gcagcaccgg 120  
 taccaggcga tcttcggctt ggtccctcca gtccatcctg cagcagcagc cgcatagcgg 180  
 ccaggtcgcg gngctgttgg cggcgcagat agcgcagcaa ctgacggcga tgtgcggcct 240  
 gcagcagccg actccatgcc cctacgtgc tgccggcggt gtccccact gaagaaacta 300  
 tgtgctgtag tatagccgt ggctagctag ctagttgagt catttagcgg cgatgattga 360  
 gtaataatgt gtcacgcatc accatgggtg gcagtgtcag tgtgagcaat gacctgaatg 420  
 aacaatt 427

<210> 11188  
 <211> 413  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 11188

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 aatgtccaga ggcttaagac atacaaggcc aagctggta tcttcccaag gcgtgctcgc 180  
 aaggtaagg ctggtgactc tactctggag gagcttacca ctgctacca ggtacagggt 240  
 gactacatgc caattactcg cggtgagaag cgctctgtag aggttgtaa ggtcacagat 300  
 gagatgaagg cgtttgcggc ctatggcaag ctccgccttg agcggatgaa caagaagcac 360  
 ctcggtgccc gccagaagaa ggcagctgag gcagagaagg aagacangaa gtg 413

<210> 11189  
 <211> 387  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-030-Q1-K1-H6  
 <400> 11189

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agcatagagc aatatgaaac tcggccaaat atttctgaga ttgatcacat aactgaggag 120  
 ttcaacaaga agtccaattc gctgtacact atcttgagga gtagtcgcct cgcgggtagt 180  
 cagagagcac ctttcctgag gcaatttctg atgaggctaa attttaactc tttctttgag 240  
 accaccgcaa ggggagtgat gaattcagga aggctgcgac caatcactgc aggtgctcag 300  
 ctgtaacggg gatggtatgt ttgggggtag tgctgcagca agagacaagg gaggagtttc 360  
 tggtagttat gtaaattatg atcggat 387

<210> 11190

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-H7

<400> 11190

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 accagacca cgttttgaag aagccaagca gtttataagg agtggcgctt ttggcagcta 180  
 tgactatgaa cctctcttgg attcccttga agggaattct ggatttgggc gtggtgatta 240  
 tttccttggt ggctatgact tccaagcta catcgatgca caggatcggg tggatgcagc 300  
 ctacaaggat aagaagaagt ggaccaagat gtccatcttg aacacagctg ggagtggcaa 360  
 attcagtagc gatcggacca tcgcccagta tgccaaggag atatgggaca tcaaggctag 420  
 ccctgtcgtg tg 432

<210> 11191

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-H8

<400> 11191

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 tactgtggtg gccgttgagg ctgctgctac ggcgggtggc gccgccgtga tggcggtggc 120  
 ggctacggcg gtggctgcag atacggtggc ggctagaagc tactgtggtt gtggccagcg 180

ctacgtgtgt ggcaaccgtg gcggcgggta cggcaactcc gactgtaact ggaggaactg 240  
agcgggtgggg cccgtgcggt caagttatct ctgttcgcta ccgatgatgtt taccctagtc 300  
cagatgggttt atcttcgttc gtgtcgtgtt agttgctgcc catctgcgtt tttgattgca 360  
aggtcgctct gtgtca 376

<210> 11192  
<211> 399  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-030-Q1-K1-H9  
<400> 11192

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cctgaatgaa aggattaaaa gatggataga ggaagaatct tttgaacagg ataaacatac 120  
tgaactccat ttcataatct tggatctgtc agctgttcct gcaattgaca caagtggcat 180  
agcgttcctc attgacataa agaaatcaat agagaaacgt ggtctggagc ttgtgcttgt 240  
caatccaact ggagaagtca tggagaaaat acaacgtgca aacgaggctg aaaactatct 300  
taggccagat tgcttgatc tgaccactgg cgaagcaatc gcttcacttt ctgcacttgc 360  
caagatgaca aaaccctaaa tggattgctg aattgtcat 399

<210> 11193  
<211> 408  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-031-Q1-K1-A10  
<400> 11193

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gaatcagtga ggaatgattt tggcagcatt gacatactag tgcattctct tgctaattggc 180  
ccagaggtaa cgaagccttt gttggaaacc tcaagaagag gctatcttgc ggcaatttct 240  
gcatccagtt actcctatgt ttcattgctt cagcacttcc ttctataat gaatcccggc 300  
ggtgctagca tctctctaac atacattgca tctgaaaggg cgattcctga gtatgggtgg 360

gggatgagtt ctgctaaagc agatctagag agcgattcac ggttgctt

408

<210> 11194

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-A11

<400> 11194

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ttctgaaact gctgctatct ttgctggtgt tgatgtcacc aaggagccca ttccagtttt 120  
gcctactgtg cactacaata tgggcggtat tccaacaaac taccatgggg aggtagtgga 180  
tatcaagggt gataatccag atgctgttgt tccctggtcta atggctgctg gtgaagcagc 240  
ctgtgcatct gttcatgggt cgaataggct aggcgcgaat tcgcttcttg acatagttgt 300  
ttttggcaga gcttgtgcaa acagggtagc agatatttct aaaccagggt agaagcagaa 360  
acctctggaa aaagatgctg gagaaaagac cataacctgc ttggacaagc tga 413

<210> 11195

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-A12

<400> 11195

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gctcgcaagc tcctatagct tcccttcttc ccccgtaact ctcaccagcg gtgtcttcgg 180  
tatgtgaaaa cccaattctt caacctaca ggatccaaca ggcaatcgca gctggcatct 240  
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tgcatttatt ggcacaaaac atcagggcac aacaactaca acaacttgtg ctagcaaacc 360  
ttgctgccta ctctcagcaa cagcagtttc ttccattcaa ccaactaggt tcattga 417

<210> 11196

<211> 299

<212> DNA



<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-A3

<400> 11196

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agaggcaata tgggttcttc ttgcttatgc ttgtgcttac aacattaaac tctaccaaatt 180  
ggatgtaaatt gacgtttttt ctaaagtcta agattagtga actagtgtat gtggagcaac 240  
ctctcgggttc tgaggacccc caaagcattt ccacatgttc aagctttcta aaccttcta 299

<210> 11197

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-H11

<400> 11197

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tgaacattgg tgcacatggg gatgactgaa tatgtgcagc atgtgcacca atcttgcattg 180  
tgcattacat atgttctcgc tgagtaatcc acctgtggcg aatatataaa gcagtcattt 240  
ctcagtcaact ggagaaatca tggagaaaat caacgtgcaa acgaggctga aaactatttt 300  
aggccacatt gcttgtatct gaccactggc gaaacaatcg ctttactttc tgcacttgcc 360  
aagatgacaa aaccctaaat ggatt 385

<210> 11198

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-B10

<400> 11198

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aggaagaagg acaacaacac tgtcagcatt caagggagga aggagggggg caatggtgtc 120

cttaagtttg acacgcaa at ctttgagatc acaccatcct gccatctcgt tcagattaaa 180  
 caaaccagtg gcgatctact tgagtacgag aaactgttgg aagagggcat ccgaccaggg 240  
 ttaaaggacg ttgtctcggc ctggcataga gatgatctgc agcagaagta gcttcggatg 300  
 tctcccgtag attctgttct agtacatttc attccttatt tttttagcag ctacattcct 360  
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<210> 11199

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-F4

<400> 11199

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 tgctgcacat taacaattct gaaacctaac tgcaaggaat acaatgccat atgtgaaata 120  
 atcacttagc tagggcaata tggaacacat gagcttcatt agatatgacc tactggctat 180  
 tattggggag tcagcgata gtgcaagtgc tttagtgtc atgtatgatc attttgctag 240  
 cttatcaact cgttgttcaa gaagaaggct cgactttctg cggaagctg gtattatcat 300  
 gatgatgatc gccacagatc ttat 324

<210> 11200

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-F5

<400> 11200

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 tcggcggcct cgcttgggcc acggacgacc actccctcca caacgccttc agcacctacg 180  
 gcgaggtcct cgagtccaag atcatcctcg atcgggagac gcagaggtcc cgcggcttcg 240  
 gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc atgaacggca 300  
 aggagctgga cggccgcaac atcacctgca acgaggccca gtcccgcggc ggccgtggag 360

gcggcggtg tgggtacggt ggt

383

<210> 11201

<211> 276

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-F6

<400> 11201

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ttatatactg ctgatgatca tcctgagccc tggctgcagg gagatgatga atggtgacgt 120

aaacatgctt ctgtttgttg ttacttttgg ttgtattttt tttgggttca ctttatcttg 180

gtcaatacgt accacattag atcacagcaa ccaaattcga tcttaatttg taccatttga 240

tatgagaccg agacaataaa aaagggttata ctgtcc 276

<210> 11202

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-030-Q1-K1-F8

<400> 11202

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atgccctgcc cctgcgcggg gctgcagggc ttgtacggcg ctggcgccgg cctgacgacg 180

atgatgggcg ccggcggggt gtacccttac gcggagtacc tgaggcagcc gcagtgcagc 240

ccgctggcgg cggcgcccta ctacgcgggg tgtgggcaga cgagcgccat gtaccagccg 300

ctccggcaac agtgctgccg gcagcagatg aggatgatgg acgtgcagtc cgtcgcgcag 360

cagctgcaga tgatgatgca gcttgagcgt gccgctgccg ncagcagcag cctgtacgag 420

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<210> 11203

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-F9

<400> 11203

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<210> 11204

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-G1

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agcacatcat gtcctcaaaa cactactggt tggcagtatc atagagctta ggtagtatgt 180  
tgtctcttct ctatcagtag aaatgggttg tgagtgtgaa catgcttttc aaggactttt 240  
catgcgacag tgcttggtgc cacctatgca acgatgttgg atattttaag tgatataatt 300  
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<210> 11205

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-G11

<400> 11205

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gtgactatag tcgtgatctt agatctgcac ctaaagttcc tgttgacaca accgtagctc 180  
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 gacctctaca gcttgagtac gcctttaatg ataggcaatc acgcatatct cactttgctg 300  
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<210> 11206  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-030-Q1-K1-G2

<400> 11206

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 aaacactgga taagtgcctg gtccgtgagt accgaatgac catgaatgga atctcaaagc 180  
 aattntctca tgaattctgc gagggagtca gagcagcact agtcgacaag gacttcactc 240  
 ctaagtggga tcctnctgcc cttgagtatg ttacgaatga catgggtgac gcatacttcg 300  
 cacctcttgg cgattcggag cctgagttga agctgcctat agaatcgga gaggcatttg 360  
 tatgatcaca natcattcca agaaccggat cattgcaagt accggactgg gacctgataa 420  
 acgtgttata atct 434

<210> 11207  
 <211> 146  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-G3

<400> 11207

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 aataagaaag tacatttcta gattct 146

<210> 11208  
 <211> 395  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-G4

<400> 11208

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 cttgacgcgt gataagttcg gagataacac gctcatagtt taagacctgt ctgactactg 180  
 gcagaacatg acatcatttg attttctgtt catagttggg aaatcttgtt ttgtttcgga 240  
 ctaatgcttg ttccatggat ttttaacgaa tacatttagg gtctgttctt ctaatgttaa 300  
 ttcattgtga ttggaagagg ttgaggcctt ccgtttctcc agcattagat ccagaattgt 360  
 tccagctgat caaatcttat atattctaga taagc 395

<210> 11209  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 caacatcaga ttgttacagg ctctatagc ttnccttctt cccccgtacc tctcaccagt 180  
 gttgtcttca gtatgtgaaa acccaattct tcaacctac aggatccaac atgcaattgc 240  
 atcaggcatc ttacctttat cacccttggt cctccaacaa tcatcagccc tattacagca 300  
 gttacctttg gtgcatttat tggcacaata catcagggca caacaactcg tgctagcaaa 360  
 ccttgctgcc tactctcagc aacatcagtt accttgggtg catttggttg cacaaaacat 420  
 tatggcaca caa 433

<210> 11210  
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<212> DNA  
 <213> Zea mays  
  
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 acaaactact ttgtatattt ctacatcgac tctaaagctg tcttgctatt caagtctggg 180  
 tgattgtcgc agccaataga gtcaaccttg catgcctaca tcttctttct ctcgtgtatg 240  
 ctccatcccc ttccctttcc cctcagagtc gtctgcagcc aaacctggaa accggaatc 300  
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<210> 11211  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-030-Q1-K1-G8  
  
 <400> 11211  
  
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 cctggcatct ttgtttgctg tagtcagttg atttaattgaa ctccgaaatg tctcatggag 180  
 gaaaattttc ggtcgctgt gtagcgtctt gttaaatgag caaccttcac aataattcaa 240  
 gctcggtaga attc 254

<210> 11212  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-030-Q1-K1-F3  
  
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tcatgatgcg gaaaatgatg tagatcaaga attagatgat gccgagcgaa tgctgagtgg 180  
aaaattcact gaaaccagtg caagtgcttg tgctgacctc tatgaccaca aggaagttaa 240  
tggcaatagt tcagacactg agctctttgt tgaggatcac acatttgaat caaatgtaga 300  
tttaaagtat gctcccctaa gtcgtttaac agaaaatgga aagggtccat caaatctgat 360  
gtccgctcat gaaactccat tatcagtggg agagattctt ctgtctttgg atgctgga 418

<210> 11213  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-030-Q1-K1-H10  
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tgtcttcagt atgagaatac ccaattcttc aacctacat gatccaacat gcaattgcat 180  
caggcatctt accttcatca cccttggttc tgcaaacctc atcatcccta ttacagcagt 240  
tacctctggt gcatatattg tcacaaaaca tcatggcaca acaactcgtg ctagctaacc 300  
ttgctgcta ctctcagcta cgacagttac ctttggtgca tttgtaggca ctgaacattg 360  
cggcacaaca actacatcaa 380

<210> 11214  
<211> 351  
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<223> Clone ID: LIB3059-030-Q1-K1-D8  
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ccagctaaac atcaacctac ctaaaaactaa ttcccttttca tctaacgcaa cattgatcaa 180  
cgaactctac tgcttattac actgcagcaa caactactac catacagcct aatagctgac 240  
ctgagccctg atacattcat gacacaatat cagctcattg ccgctctacc atcacgatct 300



cgactaacga attgcaccac ttttacacac tgcaacaatt agcttccatt a 351

<210> 11215

<211> 118

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-E2

<400> 11215

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aaaacaaaaa aaaaatcaaa ccgcaaaatt tcaaacttaa caatacaaac accccaat 118

<210> 11216

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-E3

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tgcgatgatg gcagtttctc agttcgtgat cttagatcaa ttgaggagga ctcgttggtg 180

gcacattttg agtaccacaa gaaagcaatt acatctatcg agtggagtcc acatgaagca 240

tcatcattag ctgtaacatc tgaagatcat caactaacia tctgggacct ttcactggaa 300

agagatgcgg aggaggaggc tgagttcaga gcaaagatga aggagcaggc aaacgcacct 360

gaagatttgc cccacaact tctctttgct catcagggcc agagagactt gaaagaactg 420

cactg 425

<210> 11217

<211> 278

<212> DNA

<213> Zea mays

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<400> 11217

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 accctgcacc agctagtata cctcatagct ctgcgttggc accacttccc ggaagagggg 180  
 gcttggttga ccaagatgtg aactctgata ctcaaatca tctcttggtc ggtgttagta 240  
 tagactcgca gtcactgcta atgcaagggg gcatttct 278

<210> 11218  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-030-Q1-K1-E5  
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 cgagtacatc atgacagggc atctaacgac caagagcgcac gtgtacagct tcggcgctcgt 180  
 gtccttgagg ctgctaacgg ggcggaaggc gttggacaag aaccggccgc cgcgagagca 240  
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 ggaccggagg ctgccgcgcc ccaccacgcc caccgagca gcccaaaagg ccgccgggat 360  
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<210> 11219  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-030-Q1-K1-E6  
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 gtggttggcc gtgaccgct catgctagag accgacttcc agaacctccc ctacctacag 180  
 gccgttgtca aggaatcact ccggctgcac ccgccgacgc cactcatgct cccgcacaag 240  
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 aacgtgtggg cgggtggcgc tgatcccaag gtctggagca acccgctgga gtacagaccg 360

gagcgcttcc tggaggagaa catcgacatc aagggcagcg acttcagggt gctgccgttc 420  
 ggtgctggcc ggcgtgt 437

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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-E7

<400> 11220

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 catcttacca ttatcacctt tgttcctcca acaaccgtca gccctattac agcagttacc 300  
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 aaaccttgct gcatactctc agcaacatca gtttcttcca ttcaaccaac tggctgcatt 420  
 gaactc 426

<210> 11221  
 <211> 394  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-E9

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<210> 11222  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-030-Q1-K1-F10  
  
 <400> 11222  
  
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 <223> Clone ID: LIB3059-030-Q1-K1-D7  
  
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 gctggcacc ctttacaact gcaacaattg ctgccattca accaacttgc tttgacaaac 360  
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<210> 11224  
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<212> DNA  
 <213> Zea mays  
  
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<210> 11226  
 <211> 64  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-030-Q1-K1-C12  
  
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<210> 11227  
<211> 298  
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<213> Zea mays

<223> unsure at all n locations  
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tctaccaaca acacatcatt ggcggtgcc tcttttagat tgcttattag ttgtcattca 240  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-C5

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-C6

<400> 11229

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atgcgcttgt gcatgatgta tgatgtatca ttcaaagagt atcttgatat tctttctgca 180

gaacatgaag aaactgtagg aagggaccgt atgagttttg atcaatgtca gtcactttaa 240

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<210> 11230

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-C8

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gtatgtgaaa acccaattct tcaaccctat aggatccaac aggcaatcgc agctggcatc 240

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<210> 11231

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-D1

<400> 11231

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 <212> DNA  
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 <223> Clone ID: LIB3059-030-Q1-K1-D10

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 cgcaccgcac aagcaaagtc tcgccactcc aatgggcagg gtcgctggcc tgtaaagtca 180  
 gccaggTtca tattggattt gctgaagaat gctgagagta acgctgatgt gaaaggcttg 240  
 gacgtggaca acctctatgt ttcacacatc caggTgaacc aagcccagaa gcagaggcgc 300  
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<210> 11233  
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 <223> Clone ID: LIB3059-030-Q1-K1-D12

<400> 11233  
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 tagcccagcc atgctaggtg gcttatgtct catacgttcg actggcttgc ttcgcttccc 180  
 acgatggTgg tctctttgta actttccagg tcttttgagt atgtaggcta cggatggcgc 240



aagatttagt tgctcatctg ctatgttggt tagtgctcgg cttttcacta caggaaacgc 300  
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<210> 11234  
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<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
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tccacaatgc tcacttgcta caagttccat tattacacag gtcctaccac cagatactta 180  
atgggctttg acaccagct gtgcaagcct atatgctaca acaagcaatt gcggcgagcg 240  
tcttacaaca accaattttc cagttgcaac aacaatcctt ggcacatcta acaatacaaa 300  
ccatcgcaac gcaacagcaa caacaattcc taccagcact gagccaccta gccatggtga 360  
accctgtcgn ctacttgcaa cagcagttgc ttgcatcaaa cccacttgct ctggcaaacy 420  
tagttgcaaa cc 432

<210> 11235  
<211> 411  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-030-Q1-K1-D3  
  
<400> 11235

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gccgtcgctc tcttggtctt cgctgcgagc gccacctcca cgcatacaag cggcagctgc 120  
ggctgccagc caccgccgcc ggttcatcta ccgccgccgg tgcattctgcc acctccggtt 180  
cacctgccac ctctgtgca tctcccaccg ccggtccacc tgccgccgcc ggtccacctg 240  
ccaccgccgg tccatgtgcc gccgccggtt catctgccgc cgccaccatg ccactaccct 300  
actcaaccgc cccggcctca gctcatccc cagccacacc catgcccggtg ccaacagccg 360  
catccaagcc cgtgccagct gcagggaacc tgcggcggtt gcagcaccgc g 411

<210> 11236  
 <211> 364  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-030-Q1-K1-D4  
  
 <400> 11236  
  
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 gaggtcgctc ttctaggtct caatgttagc gccacctgca cgcatacaag cagcagctgc 120  
 agatggcagc caccaacgac ggttcatgta ccggctttac aacatctgcc acctgaaaac 180  
 acctgcgac tcctatgcat ctgccaccga cgagacacct gtttgctgcc ggtccacctg 240  
 taaccgacag gccatgtccc atcgcccttt catacgacgc cgccaccatg acagtacatt 300  
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 catt 364

<210> 11237  
 <211> 399  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-030-Q1-K1-D5  
  
 <400> 11237  
  
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 ctacttggtt aagtggtaaa gggtcgtttg cttatggaat ctatttgggg gctcttcctg 180  
 ttatatcgag caattcgctt gctgtcaaaa ttctctatcc tatattttgg ggactcatga 240  
 cactcagtac ttttggtaac gatcttgccc caacaagcaa tggatattgag gtgatattca 300  
 gcataatcaa tgtcctcagt ggcctgatgc tcttcacatt gctgatcgga aacatacagg 360  
 tattttctgca cgcggtcctg gcaaggaagc ggaagatgc 399

<210> 11238  
 <211> 432  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-B8

<400> 11238

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ggagggattt ggaggccttt ataagggcct tttcccctct ttggtgaaat cggcccctgc 180  
tggtgctgtg acatttgtgg catatgaata catctcagac tggttagagt cgatactgat 240  
gtgaaaatct tcaatgcaga tagggagcaa ggctggagtt gaggtagggtc ttgatggatc 300  
atggagctat caagatacca tgacgagAAC tttttgcaca ccgtggacat ggaggatgga 360  
gaccggaagg tcaatcgtca agtgcataca attcctagag atccgataca tgtaaagcct 420  
tacatagaaa ag 432

<210> 11239

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-D6

<400> 11239

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gttgaagaag ccgtgatggg gaacgccacc aacagcaaca agcgatactg ttacactggg 120  
tcagcaaaaa gttttgttct gctctatcag tcggccaaag ctgaaatttt caaatattct 180  
agatcagagt gattagcatg ctacttctga acagttgcag caattgtcta tcctgcggaa 240  
ctatttatgg gactgtgtat tgtaagtcg gttttctccg agttatacga gacgtatggc 300  
atcttgagat gtgtcaccaa aaaaaaaca aaaactaa 338

<210> 11240

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-A11

<400> 11240

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tttcacttcc tatectactt acaccttttt tccatatttc tcacaccact tcctttctcc 120  
tctgactgcc tcaacattct attccccaac tataacctcc ttcttgctac aataacccat 180  
cacaccatgc atcttactgt cctagcattc actgtccatc aaccatatgc cctatcgcta 240  
cagccatcct tagtgcattc atatcttcaa acattcgat cacatcaact tcaacatcaa 300  
ttgcttacia ctattaatca cgtccttgca gcgaaccttg atgcttacct tc 352

<210> 11241

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-A4

<400> 11241

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aacagagac ctggtatgat ctagctctct tataacctagg tatggcacia tggagggatg 120  
cagaggtttg tgtattgaag ataagatcca tcagtcctta ttctgcattg gcttggcatg 180  
ctacaggaaa aatatatgaa gcaaaaggtc ttagaaaaga agctttggga gcttttttca 240  
gagccttaga tcttgatcct aaacatgtcc caagtttaat atcaactgcc actgttctac 300  
aacaacttgg tgacaggcca ttgccttcta tacgggtgctt cctgactgat gcattacaac 360  
tggatagaac taatcatgtt gcgtggttca atcttggcct tctttacaaa gaggaagggtg 420  
gcaggtcagc 430

<210> 11242

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-030-Q1-K1-A8

<400> 11242

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gaagaactat gacctcaaa aggacaagcg cttcagcggc tctgttaagc tgctcacat 120  
ccctcgccct aagatgaagg tttgcatgct tggatgatgct cagcatgttg aggaggcaga 180

gagaatgggt atagacaata tggatgtgga agccctcaag aagatgaaca aaaacaagaa 240  
gctagtgaag aagctggcaa agaagtacca tgctttcctt gcatctgagg ctatcattaa 300  
gcaaattcct cgtcttcttg gtctctgtct taacaaggca ggaaaattcc ctaccttggt 360  
gacacaccag gaatcccttg agtccaaggt taatgagaca naggctacag ttaagttcca 420  
gctgaa 426

<210> 11243  
<211> 374  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-A9

<400> 11243

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cgagaacggc gtcctgtggg aggtcgagg aaagtgggtc acccaagggtc ctgttgatgt 180  
ggacattggt gccaatccat ccgacgagg tggtgaggac gaaagcgttg atgacacagc 240  
tgcaaggtg gttgatattg ctgacacatt ccgtctacag gagcaacctc cttttgacaa 300  
gaaatcattt gtgtcttaca tccaacaata catgatgaat ctactgctg tgggtggagcc 360  
agagaaagcg gatg 374

<210> 11244  
<211> 405  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-B1

<400> 11244

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ggatatgagc ctattcagtt gcttctacga ttttgtttcc ttcattctgcc gtgaaaagggt 120  
caaaagagtg tcaactattca gagagctgta gcagcatgga ggattgttct aagtggaagg 180  
ttccgtttgc ttgatcgatg gtgtaacttc gttgagaagt accaacgcca taacatatcc 240  
gaggatactt ggcagcagct gctagctttc agcaggtgtg taaatgaaga tctggaagggt 300

tatgaccac gaggtgcttg gcctgttctg attgatgatt ttgttgagca aatgcacaga 360  
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<210> 11245  
 <211> 393  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 ccgccccggc ctcagcctca tccccagcca caccatgcc cgtgccaaca gccgcatcca 120  
 agcccgtgcc agctgcaggg aacctgcggc gttggcagca ccccgatcct gggccagtgc 180  
 gtcgagttcc tgaggcatca gtgcagcccg acggcgacgc cctactgctc gcctcagtgc 240  
 cagtcgttgc ggcagcagtg ttgccagcag ctcangcagg tggagccgca gcaccggtac 300  
 caggcgatct tcggcttggc cctccagtcc atcctgcagc agcagccgca aagcggccag 360  
 gtcgcggngc tgttggcggc gcagatagcg cag 393

<210> 11246  
 <211> 324  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-030-Q1-K1-B11  
 <400> 11246

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 aatagtactg tttatgcgtg ggggtaccatt ataatatatt aacgatgttc ccattgctgc 120  
 atttacaatt catagagaca acatagtata aatagtagaa gccgttacgg attaaaacca 180  
 aactagcagg ctctatcttt tataagtaca aaattgtgcc gaatgctcta tctttcataa 240  
 gtacaaaatt gtgccgaaaa aaaaatgcga cagtcattga agtcacttag ctaaaaaagg 300  
 tagcaacctc taatacatcc atga 324

<210> 11247  
 <211> 290

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-B12

<400> 11247

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 aagagaaaaa aaaaaaaaaa aaaaaaaaaa caaaagtaac tacttcagaa aaaaaaaaaa 120  
 aaaaacataa ataaagcaaa aagaggccgg ccattctaaa gaatccaaca ttcaaaccga 180  
 gaacgttgta cgcatgaagt acgttatgta tactgctaaa caaagtaaga ggccatttga 240  
 gcatagcttc cagtgcggaa actacaaggt tccaacaaac tgatgatatc 290

<210> 11248  
 <211> 384  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-B3

<400> 11248

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 atcaattgag agaaatctcc aaatcgctgc agttctggga gggctttctg tatcagctgc 120  
 attggaactt tctcaactcc aaatcctgtt tctcatacta ggtctactat ctttgtgggc 180  
 cgtggacttt gtatatattt gtgggtgggt gagaaacttg gttcttgata caattgggtca 240  
 ctatcttagc cagaagtatc acaacagagt tatccagcat gaagctgggc acttcttgat 300  
 agcttacttg cttggagtgc ttccaaaagg atacacaatc acaagcttag atacacttat 360  
 gaatcaaaga tcgcttaatg tgca 384

<210> 11249  
 <211> 387  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-B4

<400> 11249

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cgtcttgtag gcctcgatga cgaggagcac ctcgttggcg cccttgcttg acagcccgtg 180  
 ctgctggctc agacgacca ggttgccag cccccctcg aacaggcaga acacctcgtc 240  
 cttggccgcg aacgacctgt ggcggaggag cgcctggttg gtgtgggagt aggcgaggtg 300  
 gccgtggtcg ccgagctgca cggacacggg cggctcggag gcggccagga agcgcgccac 360  
 cagctgcgac gccttcgtct tgggcga 387

<210> 11250

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-B5

<400> 11250

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 aaaaaaaaaac agtaccgatc ctcttccaat ttaatataat aaccatacac actaaaacta 120  
 catctcacac aacaaataca caacataacc aaactacaaa caaccgcta ctactaaaaa 180  
 acccactacc atcatccaat caccataac tccaaaacat tacctcatcc ccactattac 240  
 ataattacaa 250

<210> 11251

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-B6

<400> 11251

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 ctcgcaagct cctatagctt cccttcttcc gccgtacctc tcaccagcgg tgtcttcagt 180  
 atgtgaaaac ccaattcttc aaccctacag gatccaacag gcaatcgcag ctggcatctt 240  
 acctttatca cccttgttcc tgcaacaatc atcagcccta ttacaacagt taccttcggt 300  
 gcatttattg gcacaaaaca tcatggcaca acaactacaa caacttgtgc tagcaaacct 360  
 tgctgcctac tctcagcaac agcagtttct ttcatccaac caactagggt cattgaactc 420



<210> 11252  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-B7

<400> 11252

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 tctccgtgct cgcggctgcc agcgcacagc cggggacctc ctgcgtgccg ggggtgggcca 180  
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 ggccgcgcct cccgtggccg gagctgaaga ggagatgctg ccgggagctg gcggacatcc 300  
 cggcgtactg ccggtgcacg gcgctgagca tcctcatgga cggcgcgac cgcgccgggcc 360  
 cggacgcgca gctggagggc cgcctagagg acctgccggg ctgcccgcgg gaggtg 416

<210> 11253  
 <211> 389  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-030-Q1-K1-A10

<400> 11253

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 atatgtttat tcagattgta gatgattgct ctcttgagc cttgcttttg gtatcaaaga 180  
 cacttcttta tttggtcccc tattacacag gcaaagagaa gacgaggtag aacccaaca 240  
 cctgggaagt atcttggcac aaaatcatcc cgtggacgga ggtactccac aagctactca 300  
 cctgatcgga ggggccgtta cagttccgcg tactcacctg atcggaggga ctgtcatggt 360  
 agagaccggt catactctnc atatgacag 389

<210> 11254  
 <211> 455  
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-029-Q1-K1-G5

<400> 11254

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atgctttctt cgtaccgctc cagtcattctc tgcntgagaa ggggcctacc acgagcnnag 180

ctctctgtgg ctgagatcac caacagcgcc ttcgagccat cttccatgat ggccaagtgc 240

gacccacgcc atggcaagta catggcctgc tgcctcatgt accgtggtga tgtgggtccc 300

aaggatgtga atgctgctgt ggccaccatc aagaccaaac gcaccatcca gttcgtggat 360

tggtgcccga ctggcttcaa gtgcggcatc aactaccagc ctntagcgt tgtgcctggg 420

ggcgacctgg ccaagggtga gcgtgccgtg tgcat 455

<210> 11255

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-G7

<400> 11255

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accggcctgc gaccggaggt ggcggaggct actgagacct ccacgcccg ggcggcatgc 120

actgagaggg gcaacagcag cagaaacacg gcgccatgat gacggcgctc aaggccgcga 180

cagccgcgac cttccgccgg tcgatgctgc agctgtacgg gctgatcctg gcctgcacc 239

<210> 11256

<211> 286

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-029-Q1-K1-G8

<400> 11256

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atgtgttgct aacgcgacaa ttttccctca atgtcacaa gtcctatag cttcccttct 180  
tccccatac cttccatcaa tgatagcttc agtatgtgaa aaccagctc ttcagcccta 240  
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<210> 11257

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-G9

<400> 11257

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actccgcca cctcaagcgc tccggcaaga tggagctccc tgagtgggtt gacattgtga 180  
agactgcgag gttcaaggag ctctcctcctt atgacctga ctggtactac atcagggctg 240  
catccattgc aaggaagatc tacctaaggc aaggcatcgg tgtgggtggc tttcagaaga 300  
tctacggtgg ccgccagagg aatggctccc gccaccaca cttctgcaag agcagtgggtg 360  
ctgttgacg caacatcctg cagcagctgc agattatggg catcatcgat gtc 413

<210> 11258

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-H1

<400> 11258

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tggccctcga cgcgtccgcy ggtggaattg ccgagaagcc gagagagagg gcttggagcy 180  
gagttgcggg aggtgggaga gaaggcggcg atggggcgcc tgttcctgat gcacctggac 240  
ggcaacgtct acagctgcaa aactgcaag acccacctcg gcgttgccag cgacatcatc 300  
tccaaggcct tccagtgcaa gcacggcaag gcgtacctct tccataaggt tgtcaacgtg 360

acttctggag taaaagaaga ccgcatgatg atcacaggaa tgcatactgt atctgatatc 420  
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<210> 11259  
 <211> 393  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-029-Q1-K1-H11  
 <400> 11259

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 ttgggatgct attgctaaga aggaaaaaat tgaggggtgta gaactagagc ttcggaaact 180  
 tgaagtggca gtgcaggcca ttcatacagaa cttgatatac ctcaaagaaa gggaagcaga 240  
 gatgcgaact gtgagtgaga caacaaattc aagggtcgtc tggttcagta ctctgtcgtc 300  
 atgggtctgc attgcggtat cgtttttgca agtccgacac cttcaagggt tcttcagaaa 360  
 gaagaagctc atttagagtc tctctgtaag atg 393

<210> 11260  
 <211> 327  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-029-Q1-K1-H12  
 <400> 11260

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 cttgagcacc atgtggaagg cgtacgggggt gttctaagggt tgctcttttg tgaagtctgc 120  
 taggttcttg cagcgagggt ttattgaatt aaactcttgt taaggatatg tttttggacg 180  
 atcctatatt tcgtcctggc gctactatgg ttcagaatgg tgggtactact ataagtatcc 240  
 tagcgtata agtattgctt gaaaggatca atataatttg cgtgtcatac ccgcaacctt 300  
 ttctgccaaa aaaattaata ctataag 327

<210> 11261  
 <211> 416  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-H2

<400> 11261

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tgctcattgg acgtctcatt aatgctaatac agcacctttt ggcccttcgc atctctgagt 120  
accttaacct gaaccggag gttgtgataa tgcattgggc atgtgagaag ataacagcat 180  
caacaactct tccagataca gtccttcttg atgggtctgct tgataagctc aggctatgta 240  
aagggatatac atatgctgca gtggcagctc atgcagataa cagtggctga cgaagggttg 300  
ctgcaatgct cgttgatcat gagtcacagt cctctaagca gatccccctg ttgctcagca 360  
tcgatgaaca agacaaagca ttatcaaagg caattgaaag tggcgatacc gatctt 416

<210> 11262

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-H5

<400> 11262

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aggatggaac tacaactgca ggcaattcca gtcaagttag tgatgggtgct ggagctgttc 120  
ttctcatgaa aagatctgtg gctctgaaga aagggtgcc cattcttgggt gttttcagga 180  
gctttgcggc tgttggagtg gatccagctg ttatgggtgt tggctcctgct gtggccattc 240  
ctgctgctgt gaagtctgca ggccttgaga ttggcgacat tgatctgttt gaactgaatg 300  
aggccttcgc ctctcagttt gtctattgct gcaacaagtt ggggctggac cgttctaaag 360  
taaagtataa tggaggcgcg attgcccttg gacacctct gggtgcaaca ggttgcccg 420  
gtgtggc 427

<210> 11263

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-H6

<400> 11263

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gaaccctgct gcttatttgc agcaacaact attaccattc agccagctag ctactgccta 180

ctctcagcaa caacaacttc ttccatttaa ccaattggcc gcactgaacc ccgctgctta 240

tttgcagcag caaatactac taccatttag ccagctagct gcagcaaacc gtgcttcctt 300

cttgacacag caacagttgc tgcctttcta ccagcagttt gcggctaacc ccgcaaccct 360

cttacaacta caacaattgt tgcctttgt ccaacttgct ttgacagacc cagcggcctt 420

ctaccaacaa cacatcattg g 441

<210> 11264

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-H9

<400> 11264

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aaatttccag ttcttgcttc ttcctcttgg aggaggaggg ctgcagcctg caggggcccgg 120

agagagcagg aggaggcgga gacatgggta gcttcgctaa gctggcgagg agggcgggtg 180

agacggacgc tccggtcatt gtgaagatac aagaactgct ccgaggggcc aaggatgtga 240

tgtegtttgc gcagggagtt gtttactggc aacctcccga gtcagctatg gataagatcg 300

aaaagatcat cagggaaacca atagtcagta aatatggttc tgatgatggg cttcctgagc 360

ttcgagaagc acttctcgaa aagctaagca gagagaacaa gcttaccaa tcatcagtca 420

tggtcac 427

<210> 11265

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-029-Q1-K1-G4

<400> 11265

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 acccctgctg caaagaagga taatgctgag ggacaagagg ttgaggcagc agctgaggaa 180  
 acgaaaaaga gcaaccatgt cacgaggaag cttgagaagc gcaaggaggg acgtaccctt 240  
 gacccacaca ttgaggagca atttggcagt ggacggttgc tggcatgcat ttcttcccgc 300  
 cctggacagt gtggccgagc tgatgggtac atccttgagg gtaaagagct tgagttctac 360  
 atgaagaagc tacagaggaa gaagggaag agcgtctgag cttagagcat tctcatggat 420  
 tgtcttgac cgaaatgtgt g 441

<210> 11266  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-029-Q1-K1-E8  
 <400> 11266

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 tcgaggtaaa aggacagcat ggtgagggtc agcgtgctca atgatgctct caagtccatg 120  
 tacaatgctg aaaagatagg gaaacgtcag gtcgatgatca ggccgtcatc caaggtgatc 180  
 atcaagttcc tgacggtcac gcagcgccat gggtacattg gcgagttcga gtacgtggat 240  
 gaccacagag ctgggaagat cgtggtggag ctgaatggaa gactgaataa atgtggtggt 300  
 attagccac gttttgatgt aggtgttaag gagatcgagg gatggacggc gaggcttctt 360  
 ccatctgcc agtttggtta catcgtccta acaacttctg ctggaattat ggaccatgaa 420  
 gagggccgcc gtaaga 436

<210> 11267  
 <211> 419  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-029-Q1-K1-E9  
 <400> 11267

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tatgctcctt gctctttctg catgtgttgc taacgcgaca attttccctc aatgctcaca 120  
agctcctata gcttcccttc ttccccata ccttccatca atgatatgctt cagtatgtga 180  
aaacccagct cttcagccct ataggctcca acaagcaatc gcagcaagca acataccttt 240  
atcacccttg ttgtttcaac aatcgccagc cctatctttg gtgcagtcac tggtagaaac 300  
catcagggca cagcagctgc agcaactcgt gctacctgtg atcaaccaag tagctctggc 360  
aaacctttct cctactctc agcaacaaca atttcttcca ttcaaccaac tgtctacac 419

<210> 11268

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-F11

<400> 11268

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caattagtgc agcatggttt taaagatgca attgccaaag ttggattaac aaagctgatt 120  
tctaattttt ttgtgggtggg cttattctat cacctttata accagtatgc taaaacaca 180  
ttgtagctgg tagccctttt aacacatgcc atcggaatg tgttgaaacg tgtcttcgtc 240  
attggctttt ccatcatcgc attctgcaac aagatcacca cacatactgg aatcggcact 300  
tgcattgctg tttctggcgt tgccctctac tcatttataa aggctaagat tgacgacaaa 360  
aagcacctta agagtgcata a 381

<210> 11269

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-F2

<400> 11269

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gcgccgtcat tggctctgtc cgcaaggacg ctgccttat aaccgctcga ccgtctgcaa 120  
atgcagcggc tctgggattc gacgacgagg tttatcgctg ggacgccacc gttctacatc 180  
ccatcatcga cgagggccat attccggata tcggcaccga tggcgccgac gagactgggc 240



aagcctataa catcaatgct gatacagcag ctggcgagat tgccgctgac gtgggcgccg 300  
 agaagctgct gttgctcaca catgtgtctg gcattttggc ggaccgtaat gaccctgcga 360  
 gcctggtgaa ggtggtcgac attgctgcgg tgcg 394

<210> 11270  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-029-Q1-K1-F4  
 <400> 11270

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 cagctggaca agattacccc ggtacacttc agtggcctgt ttgatatgat gtaacatcat 120  
 tgtcatggaa tgttcttggc taacataaca tactcaatta tcagatcctg aattgaaaca 180  
 ccatgtttgt ttttatttga tgaatgatgt cgcttattgc tatactgtgc aaagtttacc 240  
 actatggcgc taaccgcgtt gtttatgcat ccagcatctt cgtaccgacg agaatggaat 300  
 tgcaatgttc aaaggtgttc cctttactac atcagctggc ccatgtagat cttcgattca 360  
 caacggaaat gttaagttag cagctcatta gacatggttg catagattga catcaaactt 420  
 atgc 424

<210> 11271  
 <211> 405  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-029-Q1-K1-F5  
 <400> 11271

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 cgggttcggg ttcgtgaggt tctccggggt tggggttcgt gggtagagcg atcgagatgg 120  
 cggcgtcgga tggtgagtac cgctgcttcg tcggcggcct cgcctgggccc acggacgacc 180  
 actccctcca caacgccttc agcacctacg gcgaggtcct cgagtccaag atcatcctcg 240  
 atcgggagac gcagaggtcc cgcggttcg gcttcgtcac cttctccacg gaggaggcga 300  
 tgcggaacgc catcgagggc atgaacggca aggagctgga cggccgcaac atcacgtca 360

acgaggccca gtccccgccc ggccgtggag gcggcgccgg tgggt 405

<210> 11272

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-F6

<400> 11272

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gaaaaataaa aaaaaaaaaa aaacaaaaaa aaaaaaaaaa aataataaat accaaataat 120  
taaaaaaaaa acataactaa aaacacaaac aaccactccc tccacaacac cttcaacacc 180  
tacaattaac tcctccactc caatatcatc ctcgatcggg aaaccacag tttcccaaa 240  
ttcaacttca tcaccttcta caccacgag gcaatcccga acaccatcta aaacatcaac 300  
tgcaaggaac tttacaacct taacatcacc ttcaa 335

<210> 11273

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-029-Q1-K1-F7

<400> 11273

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accantagat gatggaaatg gaaaagaagt agcaactgaa attgttacia acatgggttac 120  
aaacaaaaca ttctacactg attccagtgg acgtgatttc atcaaaagga taagagatta 180  
tcgatcggag tggaagattg aagtgcacca gcctattgct ggaaactatt atcctgttaa 240  
tcttggcatc tatgtggagg atggcagcaa agagctgtct gtactggtag acaggtcaat 300  
tggaggttcc agtataaagg atggacaaat agagctaatt ctacacagga ggctactcca 360  
tgatgatggg aaaggcgtcg ccgaggcgct aatgaaaca gtctgtctcg ataagcaatg 420  
tg 422

<210> 11274

<211> 429  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-029-Q1-K1-G1  
  
 <400> 11274  
  
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 tgacatgtga aacatagata agaaaaggag aaaaaaata cctagagcta ttatgcaatg 120  
 ctgacgtgat tctccaaatc ccataccacg atcttaccat ccaatcctga tgtgctgaat 180  
 cgtttgatac taccgtcgct tacttttctc aagggtacaa tacacgttat gcaattctca 240  
 tgggccccgc cagcaggttt tgatggttca acggtatcac tactagtccc ttgctttgat 300  
 tggccgtata gctttccaag ggcttcagag agctgcgagg cttttgaagc tgatggggca 360  
 gctgtcctgt agtgcaagaa tcttatgaga gtccaaagcc cagtatcatc agcagcacag 420  
 atcatagga 429

<210> 11275  
 <211> 370  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-029-Q1-K1-G10  
  
 <400> 11275  
  
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 ggggcttcca ttcaaccaac tggctgtgtc aaactctgct gcgtacctac aacagcgaca 120  
 acagttactt aatccattgg cagtggctaa ccattgggtc gctaccttcc tgcagcagca 180  
 acaacaattg ctgccataca accagttctc tttgatgaac cctgccttgc agcaacccat 240  
 cgttggaggt gccatctttt agattacata tgagatgtac tcgacaatgg tgccctcata 300  
 ccgacatgtg tttcctagaa ataatacaata tattgattga gatttatctc gataaaaaaa 360  
 aaatacatgc 370

<210> 11276  
 <211> 399  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-G11

<400> 11276

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tcgtgtacgc gctgtcgccc ttccagcaga aggtaatgcc ggggctgtgg aaggacatca 180  
ccaccaagat ccaccacaag gtcaccgaga actggatctc cgccacgctc ctccctaccc 240  
ccgtcgtcgg cacctaccaa tacgccatgt ggtacaagga gcaggagaag ctttcccaca 300  
gatattaaat gcgctgccct tcacagacag cacttgatt taacatttgt ttgatcaatt 360  
tcagttcaac gccttttcat cgttccatat gcatgtatg 399

<210> 11277

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-E7

<400> 11277

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cccgtgcgcg tgccggccgac tcccggcgcc cgtgtcccat cgctcgtgcg ggcattccgt 180  
gcctgctgcg ttgagaagtg cttgctgtgt gctaccgctc ccacgggaag ccgtgctcga 240  
tacacgttgc ctctcgtcag ctacaccccc ggggtgcggc tcgtcggctc gagagcgccc 300  
gcggcgtttg cctcgtgccg ccgtcggcct atggccggcg gcaccgagga cacctcgtcg 360  
gcgcttttgg tctcggatgt ggctcacgct gaaggccgga gacgcgttgg cgtcacgcg 419

<210> 11278

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-029-Q1-K1-G2

<400> 11278

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tcatatataag tcagccaaca ccatgtatat aaggatgggt tgcatacatat ggtgatcgcc 120  
aatgcgcatac aagttctctc atcccttgcc agaccatgct tatttccatt gcacaatcat 180  
caagctctgc atcaacttgt tgaggataat aatgaaataa tacatggtgc cattacatgg 240  
caacattttt ctgtcactag tatgaggcac taggctaaat gtactgacga ctggaattcg 300  
aatatgtatg cttttgcaat cggacaccta aataccttga gcttatactc gttacctaaa 360  
tatgtctact gtcatcttag attgttcgaa aatgtcatgc attacatg 408

<210> 11279

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-D12

<400> 11279

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tctgtgttta taaaaatgaa gaaaccatct gctgccattc gtgatgtcaa tgctgctcta 120  
cacatcaacc catactctgc aaaatgctat aaaactcgtg gaatggcata tgccatgctt 180  
gtcaaattggg aggaagctgc tcatgatctg cacacagcat ctaacatgga ttacgactag 240  
gagatcaatg c 251

<210> 11280

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-029-Q1-K1-D3

<400> 11280

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gaggatttga ctggcattct ggagtcagtt ggctgtgaag ttgacaatga aaggatggaa 180  
ctgctgctgt cccaactgag cggtaaggac atcaccgagc tcattgccgc gggcagagag 240  
aagtttgctt cagtcccatg tggcggcggc agtgtggctg ttgcggcagg tgcacctgct 300

gctggcggag ctgctcctgc agctgacgca aagaaagaag agaaggtgga agagaacgaa 360  
gaaagcgatg atgatatggg cttcagcctc ttcgactagg ttgcacagtc atcacagtat 420  
tgtttcgggc a 431

<210> 11281  
<211> 435  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-029-Q1-K1-D4  
<400> 11281

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ccgtcaatgc tcacaagctc ctatagcttt ccttcttccc ccataccttc catcaatgat 120  
agcttcagta tgtgaaaacc cagctcttca accctatagg ctccaacaag caatcgcagc 180  
aagcaacata cctttatcac ccttgtttca acaatcgcca gccctatctt tgggtgcagtc 240  
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agtagctctg gcaaaccctt ctcctactc tcagcaacaa caatttcttc cattcaacca 360  
actgtctaca ttgaaccgtg ctgcttattt gcagcaacaa ctattaccat tcagccagct 420  
agctactgnc tactc 435

<210> 11282  
<211> 419  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-029-Q1-K1-D5  
<400> 11282

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aatcacttat taaccggtta cgagtaatat tgtgtggagc agtaccacag tgattcaagc 180  
cttcctcgtt attgatgatg aagaggatga gacctttatc atacaattgc tatgcgagtc 240  
agtgcaactt acttaggtcg acaatcagct cacgtgcata gtatgcacca taatgacatg 300  
agtcctgatc ctgcacgaac agcacttgaa cctggagcgt tagatcgcaa caaccaccat 360

gacaggtgag tgctgactca agaaggggtcc gctaaggctc caaactgctg aagatcgac 419

<210> 11283

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-D7

<400> 11283

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aaaaaaaaata aaaaaaaaaa aacaaaaaaaaa taaaaaaacc taaacataaa aaaactgtcc 120

gtcctttttac agcatcctac ctctctaccc ccttcatgca acccaattaa ttttctttac 180

tgcccccttaa cttaatttaa ctctccgtct tttcccaaca tctccactcg aaaaacctct 240

cccttcccca atttaatctc tttgcaaaac atcccccttt ctccagcttt ccaattagca 300

aagaggcctt aacctatcac ccttccca 328

<210> 11284

<211> 204

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-D8

<400> 11284

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aaataattaa cccaacccaa aacaaacaca aaaaaaaaaa aaaacaacaa aaaaacacaa 120

acaaaaaaaa aaactcaaaa aacaaaacac aaaaaaaaaa cacaaaacaa aaaccaaaaaa 180

aaaaaaaaaa aaaacaaaca aaaa 204

<210> 11285

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-E1

<400> 11285

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 cctcaatgct cacaagctcc tatagcttcc ctttttcccc cataccttcc atcaattata 180  
 gcttcagtat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgagca 240  
 agcaacatac ctttatcgcc cttgttgtgt caacaatcgc cagccctatc tttgggtgcag 300  
 tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc tgtgatcaac 360  
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 caactgtcta cac 433

<210> 11286  
 <211> 428  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-029-Q1-K1-E11  
  
 <400> 11286

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 agctcttcaa ccatataggc ttcaacaagc aatcgagca agcaacatac ctttatcgcc 180  
 cttgttgtgt caacaatcgc cagccctatc tttgggtgcag tcattggtac aaaccatcag 240  
 ggcacaacag ctgcagcaac tcgtgctacc tgtgatcaac caagtagctc tggcaaacct 300  
 ttctccctac ttttcgcaac aacaatttct tccattcaac caactgtcta cactgaaccc 360  
 tgctgcttat ttgcagcaac aactattacc atttagccag ctagctactg cctactctca 420  
 acaacaac 428

<210> 11287  
 <211> 359  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-029-Q1-K1-E12  
  
 <400> 11287

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agccaagat catcctcgat cgggagacgc acaggtcccg cggcttcggc ttogtcacct 180  
tctccacgga ggaagcgatg cggaaacgcca tcgacggcat gaacggcaag gagctggacg 240  
gccgcaacat caccgtcaac gagggcccagt cccgcggcgg ccgtggatgc cggggccgcg 300  
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<210> 11288

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-E2

<400> 11288

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caccacaatt ttccctcaat gtcacaagc tcctataact tccctttttc ccccatacct 180  
tccatcaatt ataactacaa tatcttaaaa cccaactctt caaccatata cgcttcaaca 240  
aacaatctca actaacaaca tacctttata ccccttaata tatcaacaat cacctacct 300  
atcttttata caatcattga tacaacccat catatcacia caactacaac aactoctact 360  
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<210> 11289

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-029-Q1-K1-E3

<400> 11289

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ggggcctcgc ctggggccacg gacgaccact cctccacaa cgccttcagc acctacggcg 180  
aggctctcga gtccaagatc atcctcgatc gggagacgca gaggtcccgc ggcttcgggt 240  
tcgtcacctt ctccacggag gaggggatgc ggaacgcat cgagggcatt aacggcaagg 300

agctggacgg ncgcaacatc accgtcaacg aggcccagtc ccgcggcggc cgtggaggcg 360  
gcggcggtgg gtacgggtgg gcccggtggag gcggcggtta cggcggtggc gggcgccgtg 420  
atggcggt 428

<210> 11290  
<211> 429  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
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<400> 11290

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ttgccacaag gaggatcgtg aggccgcccc agaagggttc agctgttcag cgccctcgca 180  
ccaggactct gactgctgtc catgatggca tcctggagga tgttgtcttc ccagctgaga 240  
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acccaaagga gaggaacaac accgaataca agctggacac ctacactacg gtctaccgca 360  
ggctgtgtgg gaaagatgtg gtctttgagt accctatggn cgaaaatgca taaatatgac 420  
gcccggata 429

<210> 11291  
<211> 389  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-029-Q1-K1-E6  
  
<400> 11291

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ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc cgcacaaccc 180  
gtccccgagc tgccgtgtgt acgtgaccag ccggacctgc ggcatcgggc cgcgcctccc 240  
gtggccggag ctgaagagga gatgtgtccg ggagctggcg gacatccccg cgtactgccg 300  
gtgcacggcg cttagcatcc tcatggacgg cgcgatcccc ccgggccccg acgcgcagct 360

ggagggccgg ctaaaggacc tgccgggct 389

<210> 11292  
<211> 383  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-029-Q1-K1-D11  
  
<400> 11292

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gcttggcacg gttccagcac cggctcaaag agcaagagat ccttagccgc aagaaacctc 180  
ccagatagta tgatgatcag caatgactct gtccttgtgc cttgtaatct gattgcttgg 240  
agctcagttg tgggccatca gctgtttttt acgtgtgcgc tccagtaaata tctatagccc 300  
caagcaggcc aagacatgtg ggagtggctt aaggcggctc tgatgccgag ggcgtgggtcc 360  
tggttgatat cacctgacac ttt 383

<210> 11293  
<211> 434  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-029-Q1-K1-B6  
  
<400> 11293

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cgacgaggat ccgtccgagg cagccgtttc ctccgagggc gcacaggcgc caccgcccgc 180  
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gggcaccccg cgctcctcgc cgggtcccg catcaaggtc tgggaccct gccacgttct 360  
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ggtcgttgtg gtca 434

<210> 11294  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-B8

<400> 11294

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actattacca tttagccagc tagctactgc ctactctcag caacaacaac ttcttccatt 180
taaccaattg gccgcactga acccgctgc ttatttgcag cagcaaatac tactaccatt 240
tagccagcta gctgcagcaa accgtgcttc cttcttgaca cagcaacagt tgetgccttt 300
ctaccagcag tttgaggcta acccgcaac cctcttaca ctacaacaat tgttgccctt 360
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cctctt 426
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<210> 11295  
 <211> 218  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-C1

<400> 11295

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ttttgagtgt ggaaatggat ggtactcttc gccatgaatt tgctggctac tttatacatt 180
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<210> 11296  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

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attggttgga caaaacatca gggcacaaca actacaacaa ctctgtgctag caaaccttgc 180  
tgcctactct cagcaacagc agttttctgcc attcaaccaa ctagctgcat tgaactctgc 240  
tgcttatttg caacaacaac aactactacc attcagccag ctagctgctg cctaccacca 300  
gcaatttctt ccattcaacc aactggcagc attgaactct tctgcttatg tacaacaaca 360  
actactacca ttcagccagc tagctgctgt gagccctgct gncttcttga cacagc 416

<210> 11297  
<211> 403  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-029-Q1-K1-C12  
<400> 11297

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cggctgtggc tgccagacac caccgtttca tctaccgcct ccgttctata tgccgcctcc 180  
gttctatctg ccgcgcgagc agcagccgca gccatggcaa taccctactc aaccaccgca 240  
gctaagcccg tgccagcagt tcggatcctg cggcgctcggc agcgtcggca gcccgttcct 300  
gggccagtgc gtcgagttcc tgaggcacca gtgcagcccg gcggcgacgc cctacggctc 360  
gccacagtgc caggcgctgc agcagcagtg ctgccaccag atc 403

<210> 11298  
<211> 435  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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tgcagatgcc ctgcccctgc gcggggctgc agggcttgta cggcgtggc gccggcctga 180  
cgacgatgat gggcgccggc gggctgtacc cctacgcgga gtacctgagg cagccgcagt 240  
gcagcccgtt ggcggcgggc ccctactacg cggggtgtgg gcagccgagc gccatgttcc 300  
agccgctccg gcaacagtgc tgccagcagc agatgaggat gatggacgtg cagtccgtcg 360  
cgcagcagct gcagatgatg atgcagcttg agcgtgccgc tgccgncagc agcagcctgt 420  
acgagccagc tctga 435

<210> 11299

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-C4

<400> 11299

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gcaccaaaga tcgctatctt cactacactg gatcacttag ttcttgtcta atacgactta 180  
acctttaaca cctaccccat gttactgac cagaacatgg tgaccattga gcaagacgca 240  
ttcaacaacc tagcacactc gtacctacaa ctcataattg acgagggcct gtcttagatg 300  
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<210> 11300

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-C5

<400> 11300

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caccgcccac ggctgcgtcg ccttctccga cgacatcgac atgtcctaaag gctcatgcgg 180  
caagtcgtc gcgcggttcc cgcaaggctg cttctactcc aacgccctcg gagggctcaa 240  
gtgctacgag aacccaagc acaaggctac cgctgtcccc gccgacgaag aagagatctg 300

cggtgccact ttcaaggtag tggaagggc tactgtcctg acggcgctgc actgatctat 360  
catcatcagg cggaggcgat gcgatgatga tgcagaactt tgtacatgcg ttggtggatg 420  
gtggtgtaac at 432

<210> 11301  
<211> 432  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-029-Q1-K1-C6  
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gctggtatcg acgacgcaga ggagatcgcc ccacttgcca aggaaaacgt agccactccg 240  
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ggagcctcct gcgcggtctt gaggtcgggt gagtgaggtg ttcagcctga cactgtttcc 360  
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aaagccatgc ct 432

<210> 11302  
<211> 432  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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tggtcggcg tcgcgtcccg cttcgggggt cgccaaaccg ggctgtggag gctgcggcag 180  
gaggtgagca cgtgcgagta cgaggacgtg cacgtgatgt gggagatgct gagccgcacc 240  
acggcgccgg cgcgcgcgcc cactaggcgg cagcacagtc ggttccggcc gcagccgcag 300  
ccgcggccgt gggcgacag gttccgcctc tgccgaggct tctagtagac caaggccgcc 360

gccgcgcgcg ccgcgcgcgn cgnccgncgc ggcgcgcgcg gtgtcagctc cgctgctgtt 420  
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<211> 299  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-029-Q1-K1-C9  
  
<400> 11303

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acaacgcctt cagcacctac ggcgaggtcc tcgagtccaa gatcatcctc gatcgggaga 240  
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<210> 11304  
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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-029-Q1-K1-D1  
  
<400> 11304

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acgtccgggg caccgtcctt ggatacaagc ggtccaagtc gaaccagtac gagactacgt 180  
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<210> 11305  
<211> 406  
<212> DNA  
<213> Zea mays  
  
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<400> 11305

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ggacggctac aagcggcagt ggggcgggtca gaacaacggg tactacaacg gcggggataa 360  
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<210> 11306

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-D10

<400> 11306

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ccctcaatgc tcacaagctc ctatagcttc ccttcttccc ccataccttc catcaatgat 180  
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aagcaacata cttttatcac ctttgattca acaatcgcca gccctatctt tgggtgcagtc 300  
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<210> 11307

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-H8

<400> 11307

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agcggtcgcg gaagaagatg gggctcgcg tchgtaagct cttcagacgg ttctttgcc 180  
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<210> 11308  
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 <213> Zea mays  
 <223> Clone ID: LIB3059-028-Q1-K1-H9  
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<210> 11309  
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<210> 11310  
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<212> DNA  
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<223> unsure at all n locations  
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ctcgctcttt gtgaagagct tcgtcatcat cttegtgatc acggtgctcc tcgcagcgct 360  
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<210> 11311  
<211> 365  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-A11

<400> 11311

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actgccgtgg tgtccctgtc cctagatca ggatctacga tgcgggatg aagaggaagg 180  
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<210> 11312  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-029-Q1-K1-A2  
  
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 ctgcttgcac ccaaccact tgctctggcg aacgtagttg caaaccagca acaacaacag 240  
 ctacaacagt ttctgccaac gctcagtcaa ctagccatgg tgaaccctgc cgnctacgta 300  
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<210> 11314  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-A4

<400> 11314

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ttgagcacga cgacaatggt tccaccattg aaccttctgt ggctagtctg ttggcaaac 360  
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<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-A5

<400> 11315

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agcattgtca cattcaacta cgatatgcat tgctcaacat aactttgcta agtagtacac 180  
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<210> 11316

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-A6

<400> 11316

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tccggtgcat ctcccacgc cgggccacct gccgccgccg gtccacctgc caccgccggt 180  
ccatgtgccg ccgccggttc atctgccgcc gccaccatgc cactacccta ctcaaccgcc 240  
ccggcctcag cctcatcccc agccacaccc atgcccggtgc caacagccgc atccaagccc 300  
gtgccagctg cagggaaact gcggcggttg cagcaccgcc atcctggggc agtgcgctga 360  
gtttctgagg catcagtga gcccgactgc gacgccctac tgctcgctc agtgccagtc 420  
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<210> 11317

<211> 177

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-A7

<400> 11317

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<210> 11318

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-A8

<400> 11318

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ctgtgaggag gtgacgtct agatcgtcta gacctttgac atttccttgg ttctttcgat 180  
tctaagatat aagatttga gcctaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240  
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ggggcgactc ctatta 316

<210> 11319

<211> 333

<212> DNA  
 <213> Zea mays  
  
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 gaagaagttt gctgataatg aagatctgca ttcagagtgg cgtgctgcta agaaggctaa 180  
 caaaatgaag gttgtttctc ttataaggga gaagacagga tatattgtca gtccagatgc 240  
 aatgtttgat gtgcaggtga aaaggatata tgaatataag cggcagctgc taaatatacct 300  
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 <223> unsure at all n locations  
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 cgtgtcgtcc atccccaagg gccgctgctc cgaaggggag tctgattctg atagtgaagc 180  
 atcagatggt agtggctctg atggagaaga cacctcgtgg atttcatggt attgcaactt 240  
 aagaggggaat gagttcttct gtgaagtcga tgatgactac attcaagacg acttcaacct 300  
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 <211> 233  
 <212> DNA  
 <213> Zea mays  
  
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 <400> 11321

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gttaatccct gagggagtca gacaaagctc cctatgtagc caaagctaac aagctcaagc 120  
tcgagtacaa caaggccatc actgcctaca acaagggcga gagcactgca gctaagaagg 180  
ctcctgccaa ggaggaagaa gaggaagatg aacacgaata tttcaagacc aaa 233

<210> 11322

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-B12

<400> 11322

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gcggctgtgg ctgccagaca ccaccgtttc atctaccgcc tccgttctat atgccgcctc 180  
cgttctatct gccgccgcag cagcagccgc agccatggca atacccact caaccaccgc 240  
agctaagccc gtgccagcag ttcggatcct gcggcgctcg cagcgtcggc agcccgttcc 300  
tgggccagtg cgtcgagttc ctgaggcacc agtgcagccc ggcggcgacg ccctacggct 360  
cgccacagtg ccaggcgctg cagcagcagt 390

<210> 11323

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-B2

<400> 11323

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cctccaggat gagtacaaga ttgctggtat tggaactgta ccgggtggcc gagtggaaac 180  
tgtagtaatc aagcctgtta tggtaatcac ctttggtcca actggactga ctaccgacgt 240  
gaagatctga tgagatgcac cagcaggcac ttgatgacgt tttccggac gacaatgatg 300  
gcttgaacct gaagaat 317



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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-029-Q1-K1-B4  
  
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 tcgaggtgcc catgccaaact ggtcgcgctg cttcaaaccg gactccgtac tccaagacga 180  
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 tctgagacca cagtcacctc acctactacc acaccaacca ct 282

<210> 11325  
 <211> 376  
 <212> DNA  
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 aaatgtttcg gttatgcgca ttggtaggat cgcgtttgct attggagaac aagagattat 240  
 ttgatgtgtg cgaattgtag tgagtctaata taggttttga tcgatgaagt gcacgtgtga 300  
 ttatgtgtgt gaaaaaaaaa aaaacataat acatcgcaat gaaatgagct acaggacatg 360  
 aaaaaaaaaa gggcgg 376

<210> 11326  
 <211> 383  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-028-Q1-K1-G10  
  
 <400> 11326

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 agtggaaatgc ctacatttgc ccttcctggt cactgatggg gggtagggtt tgactatcgg 180  
 atgcatatgg ctgtggctga caaatggatt gaccttctca agcaaagtga tgaaacttgg 240  
 aagatgggtg atattgtgca cacactgaca aataggaggt ggtagagaa gtgtgtaact 300  
 tatgctgaaa gtcattgatc agcattagtc ggcgacaaga ctattgcgtt ttggttgatg 360  
 gacaaggata tgtatgattt cat 383

<210> 11327  
 <211> 364  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-028-Q1-K1-G12  
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 gaccagcttt gagatcgca tggctgacgg ccgctgctgc accttactgg agatcctctt 180  
 cgccatcatc ctcccgcccc tcgtcgtctt cctccgattc ggctgctgca gaatagagtt 240  
 ctgcatatgc ctgctgctca caatccttgg atactaacgc ggaatcatct acgcgatcta 300  
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 catc 364

<210> 11328  
 <211> 336  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-028-Q1-K1-G2  
 <400> 11328

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 gacaaaaaca agtacaacac acccaaatac agatttgttg tgcgatttac caacaaggac 120  
 atcactgccc aatcatatc tgctagtata gggggtgata tggttcttgc ttctgcctac 180

tcgcatgagt tgccacgata tggctcttgaa gttgggtctga ccaactatgc agctgcctac 240  
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 gagggcaatg ttgaggccac tggtagaggac ttctct 336

<210> 11329  
 <211> 287  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-028-Q1-K1-G3  
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 taaaccgaag aaacagaaaa aaggcttatg gggccgctaa gcttaagaag acgaagagta 180  
 taaggccaac ttaggattct gcgaccggaa atgggtgaaa tgctaagtgg aaactttaaa 240  
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<210> 11330  
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 <213> Zea mays  
 <223> Clone ID: LIB3059-028-Q1-K1-G4  
 <400> 11330

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 aagcaatgga aaaaaaaatc tactatgcgt gtatcagtac ccacgtctg agtcactggt 180  
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<210> 11331  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-028-Q1-K1-G6  
 <400> 11331

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aagatatttt ccttccttat gtccttgct ctttctgcat gtgttgctaa cgcgacaatt 120  
ttccctcaat gtcacaagc tcctatagct tcccttcttc ccccatacct tccatcaatg 180  
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gcaagcaaca tacctttatc acccttggtg tttcaacaat cgccagccct atctttggtg 300  
cagtcattgg tacaacccat cagggcacag cagctgcagc aactcgtgct acctgtgatc 360  
aaccaagtag ctctggcaaa cctttcttcc tactctcagc aaccacaatt tc 412

<210> 11332  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-028-Q1-K1-H1  
<400> 11332

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tcttgctctt gtgtgtaaca tatccagctt atgaataaat tatgtggatc agttaatt 118

<210> 11333  
<211> 407  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-028-Q1-K1-H12  
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aggcgaagaa gtagtaaaat ataaaggacc tagggatgtg gaatcgctga agaacttcgt 180  
gttgaatgaa gctgagaaag caggcgaggc aaagcttgaa gctgattgag gcaggggagt 240  
ttcagcaagc atgtggcgag tggcgtagac aaggaacaat gctttgcaac attgtcttct 300  
atcctgtcat ttacaaagcc agtttacagg aaagaaatga ctttatgagc tcgtatcaga 360  
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<210> 11334

<211> 350  
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 <213> Zea mays  
  
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 <400> 11334  
  
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 cggcggcctc gcctgggcca cggacgacca ctccctccac aacgccttca gcacctacgg 180  
 cgaggtcctc gagtccaaga tcctcctcga tcgggagacg cagaggtccc gcggcttcgg 240  
 ctctcgtcacc ttctccacgg aggaggcgat gcggaacgcc atcgagggca tgaacggcaa 300  
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<210> 11335  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-028-Q1-K1-H3  
  
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 catgttacat tcagtaagcc agaatacctc caagattcag atattgtaat gaacagattc 180  
 cataaacaga gacctgttta tggaggttgg gaacaacacc ttggattgga gcatacagcc 240  
 accaccccaa aaaggtccta cttaggcaac aaccagaacc gccattcttt tgagaagcct 300  
 gtgaggattt acaactaaag ctaggaatac tttttacatg cgatgaatga tgaacaggat 360  
 atgaagcagt cttgttccaa aagcagtctt ttggtgatgt acatggagct tt 412

<210> 11336  
 <211> 183  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-028-Q1-K1-H4  
  
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 accctacagc acagactgag attgataact tcatggttca acaacttgat gggaccaaaa 180  
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<210> 11337

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-E5

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 cgcgctagcc tacaggctac tacttgcact tgcctcgagc gccttacaat agccagtcgt 300  
 atatttgcag caacaattgt tgcaacatat aacgctacaa ccgatggaga cgcacagct 360  
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<210> 11338

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-E7

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 cgactaggct ggcaagagcc atggtgacca agtatggtat gagtaagcgt gtgggtcttg 180  
 ttctctacag tgagaatagt gttagcggcc aaacaagtgt gattgataag gaggtgaagg 240  
 aaattctgga gaaggcgtac aataacgcaa aggcaattct gacaactcac gataaggagc 300  
 ttcatatgct agcgaacgcc cttcttgagc atgagacact gtctggagcg cagatcaaga 360

aattactgcc acaggtggac aatagtaaca ataagcagaa gaaggctgcc aaggtgccgc 420  
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<210> 11339  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-E8

<400> 11339

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ccgccctcta aatctgattg cgggtacttg ctctgccctg ccatgccgtg atcaagggaa 240  
atcatttctg cgcggtgatg ttatttcttc gttctcgta attatttggg aagagtcag 300  
ttcttctoga cattcctata tattgttgac atccatatgc tggactata tatgtcaaag 360  
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<210> 11340  
<211> 414  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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tgatcgaggg ctgctcgagc agcccgctcg cgacgcagca catcaactcg ttcctgctag 180  
acgatgactt cagcataccg ttctccgtgg atgacttcac gaagctgata gtgcacgtcg 240  
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tgggacattg aggagtgaca atatgcacgc cttttttgtg tgtgttgctg tgatgtgcat 360  
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<210> 11341  
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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 11341

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cacaccgtgc accatgttct tagttntggg agaattcttt gtcttaaagc tgactggaaa 180
cctcagctta gggggccctga tgctcgggga atcaagggaa atatggcaca actattgtcc 240
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attgcaaatt gaatgagggt cataaccagg tgggggttgc catctatttg cacctttttt 360
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<210> 11342  
 <211> 407  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-F10

<400> 11342

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 <212> DNA



<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-028-Q1-K1-F12

<400> 11343

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gatggcatgc aagccctgcc tcgagaccgg ccgacgcgcc atggaccgcg cgctcgaccc 180

caaccacgac ccggactccc ccaccaacgc cgccggcgcc tccgccaacg agccgctcct 240

cgccgacctc tccgcctcca ccgcgccacc cgcaaaggcc atctgaatct catcacctcc 300

cagagcgagc cagaggcgga ccaccctttt cccctcgcct tgtaatcttg cttctttcta 360

tgtcattntg tgcttatgag tttgctatta atg 393

<210> 11344

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-F2

<400> 11344

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ccagcgttcc gggctgatgg tctgaagatt tatccaacac ttgtgattcg tggaactggg 120

ctttatgagc tctggaaaac tggcagatat agaaattatc cacctgagct gttggtggat 180

attgtggcaa gaattctgtc tttggtacca ccttggacac gagtgtatcg ggtccagaga 240

gatattccta tgcctcttgt tacttctggg gtcgagaaaag gtaaccttcg cgagcttgct 300

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<210> 11345

<211> 379

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 11345

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ccggtccttc aaggctatgc caaagctcca ctattacgac tctggagaga acttaatgag 180

agagtttgcc ttcaatcatc catgaaacac tgaaagctgt tgttgctcaa tataatgcta 240

gtcagctgat cacacagaga gagactgtga gtagggagat taggaagata ctgactgaga 300

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<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-F4

<400> 11346

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cgttgttcct ccaacaaccg tcagccctat tacagcagtt acctttggtg catttggttg 120

cacaaaacat caaggcacia caactacaac aacttggtgct aggaacacctt gctgcctact 180

ctcagcaaca gcagtttctt ccattcaacc aactggctgc attgaactct gctgcttatt 240

tgcaacaaca actaccattc agtcagctag ctgctgccta ccccagcaa tttcttccat 300

tcaaccaact ggcagcattg aactctgctg cttatttaca acagcaacag ctaccacat 360

tcagccagct agctgatgtg agcccttggtg ccttcttgac acaaca 407

<210> 11347

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-F5

<400> 11347

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aacaacatca acaaccaccc acatacaaac tacaaccata tcaaaccat actcccatat 180  
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<210> 11348  
 <211> 114  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-028-Q1-K1-F6  
 <400> 11348

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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-028-Q1-K1-F7  
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 gtggcatagg gacctgtgca gggctctgtga aaacatcccc attgtcctct gcggttaataa 180  
 ggttgatgtg aagaacaggc aggtcaaagc caagcaggtt actttccaca ggaagaagaa 240  
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 ccttgcaagg aagctggctg gtgatccgaa ccttcacttt gttgaagctg ttgctcttaa 360  
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ccggtgaaag tgaactgcgt gcacaccctg cacgagccga ccaaaccggg caagcccttc 240  
agtatcaaga tcaacgtgcg tactgatgaa cccatcgcca acggcaagct ggatattgac 300  
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<210> 11351

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-F9

<400> 11351

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aaccacagtt gttgccgttc taccagcacg ctgcgcctaa cgctggcacc ctcttacaac 180  
tgcaacaatt gctgccattc aaccaacttg ctttgacaaa cctagcagtg ttctaccaac 240  
aaccatcatc tgggtggcgcc ctctttttaga tttcttatga gttatagttc aataataaag 300  
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<210> 11352

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-E4

<400> 11352

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agctcctata gttcccttc tttccccata cttccatca attatagctt caatatgtga 180  
aaaccagct cttcaaccat ataggcttca acaagcaatc gcagcaagca acataccttt 240  
atcgcccttg ttgtttcaac aatcgccagc cctatctttg gtgcagtcac tgggtacaaac 300  
catcagggca caacagctgc agcaactcgt gctacctctg atcaaccaag tagc 354

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 <211> 375  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-028-Q1-K1-C8  
  
 <400> 11353  
  
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 agctcctata gcttcccttc tttcccgta cctctacca gcagttgtct tcggtatgtg 180  
 aaaacccaat tcttcaacc tacaggatcc aacaggcaat cgcagctggc atcttacctt 240  
 tatcacctt gttcctcaa caatcatcag ccctattaca gcagttacct ttggtgcatt 300  
 tattggcaca aaacatcagg gcacagcaac tacaacaact tgtgctagca aacgttgctg 360  
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<210> 11354  
 <211> 417  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-028-Q1-K1-C9  
  
 <400> 11354  
  
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 ccacgctcac atcgctcgcy tccgatcccg tgagaagcgc agggaccgca agccgccgga 180  
 gcgcttcagg cgcaggaggy ataggcctgc tgggtggacaa ggaggcccc gccttggctc 240  
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 ttttcgaccg tgttaagtct tctgccact cagtttcgga attgtcgct atgggtgtgt 360  
 gaagctgcta tattagagtt actttttgtc taaagcctga acattttcaa agaattt 417

<210> 11355  
 <211> 398  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-D10

<400> 11355

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ccgcaggcct ccttcgccgg cgacatccgg ggactccaca tcggccgcct ctgctcctcc 180  
ccttccccag cctccgcctc gtccaaggca gggttcacct tcacgggtggg gtaccacgag 240  
ctcgccggca caaagggtgac gctcaagaag cccctgctgg tgctcaggaa gaagaaggtt 300  
aatgctggtg ctgaggaaga agagccaccg acggcggcgg aggtggagct ggaggtgatc 360  
ggcatcatcc ggcacaagat cctattcaag ggaccgcc 398

<210> 11356

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-D12

<400> 11356

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aggccggtat ccaggtcgga aacgcgtgct gggagctgta ctgccttgag catggcattc 180  
aggtgacgg tcagatgcc ggtgacaaga ccattggggg aggtgatgat gctttcaaca 240  
ccttcttcag tgagactggt gctgggaagc acgtgccccg tgctgttttt gttgaccttg 300  
aaccactgt catcgatgag gtgaggactg gcacctaccg ccagctcttc caccctgagc 360  
agctcatcag tgggaaggag gatgcagcca acaactttgc ccgtggtcac tacacc 416

<210> 11357

<211> 219

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-028-Q1-K1-D3

<400> 11357

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tcggtcaact tttctaactt gtttgaacaa gttaaattgc ccagatattt tggtttggtc 120  
cattccagct caagaattca aagctaagca ttgcacaatt atgctngntt tgttggaag 180  
tttttgaggt taattcatat ctttaagcntg agtttgctt 219

<210> 11358

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-D4

<400> 11358

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cacaagctcc tatagcttcc tttcttcccc catacctctc accagcgggtg tcttcagtat 180  
gtgaaaaccc aattcttcaa ccctacagga tccaacaggc aatcgagca ggcattctac 240  
ctttatcacc cttgttcctc caacaaccgt cagccctatt acagcagtta cttttggtgc 300  
atttgttggc acaaaacatc aaggcacaac aactacaaca acttgtgcta agaaaccttg 360  
ctgcctactc tcagcaacag cagtttcttc cattcaacca actggctgca ttgaactctg 420  
cttgctatctt gcaacaacaa c 441

<210> 11359

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-D6

<400> 11359

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atggatcttg atctgatatc aaaatccatc gataaggcaa agaacttggt tgaggaagga 180  
ggcgattggg agaggaagaa caggttgaaa gtatatgaag gcttgtactg catggcaacc 240  
agaaacttca agaaagctgc cagcttattt ttagactcga tttcgacttt cacaacttat 300  
gagatattcc catatgatac gttcatcttc tatacagtcc tcacaagtgt catcacattg 360

gatcgtgtat ctctgaaa

378

<210> 11360

<211> 437

<212> DNA

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<400> 11360

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cggaggatgc caagggctct ttcttggaac agagcgaggt cactgaacgc atcatcaagg 180  
tcgtcaagag cttcccgaag atcgatgacc cctccaaggt gacaccagat gccatttca 240  
agaatgatct tggcctagac agtttgtagt cagtggaggt tgtcatggcc ctggaagagg 300  
aattcagatt cgagatacct gacaatgaag ctgacaagat tgactccgtc aaagttgcag 360  
ttgacttcat tgcctcacac ccgcaagcga aatgataaag atgcgttgcc tggatatgca 420  
aagctatata gtcatta 437

<210> 11361

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-D9

<400> 11361

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cgctcctata gctatcatta atgcggcata cgttccatac attatagctc caatatgtga 180  
aaaccagat attcaaccat atctgcttca acacgcactc gccataagca gcatacctaa 240  
atcgcccttg tggacacaac atttgtcaat cctatcttta gcgcatgcat cggaacatac 300  
catcatggca caacatcagt agcatctcgt gctacctctg atcaactcaa gtagctctgg 360  
caaacctttc tacatactgt cagcaacgac 390



<210> 11362  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-028-Q1-K1-E10  
  
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 cgaggggtgga tctgctatac atcttggtact tactgtgagg ggtggacact agtctaaacc 180  
 tgatgaacta tcaataagat aaactgttgt gttggctgag aaatgtgcac gcctgatgat 240  
 gaacttgcaa ggagataata acaaagtatc agatttgctc atgttcccaa tggaaggggc 300  
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 <213> Zea mays  
  
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 caccctcgtc acggaggccg agtgcaacct ggccaccatc agcggcgtcg ccgaatgccc 240  
 ctggattctc ggcggcggaa cgatgccttc caagtaactg cgaagagcat agtgcagtag 300  
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<210> 11364  
 <211> 406  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-028-Q1-K1-E2

<400> 11364

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tgtaccagct ctgactcagc tagttgtggc aaaccttgct gcctacttgc aacagctgct  180
tccattcaac caactgacta tgtcgaactc tgctgcgtac ctacaacagc gacaacagtt  240
acttaatcca ctagcagtgg ctaaccattt ggctcgtgcc ttcttacagc agcaacaatt  300
gctgccatac aaccagttct ctttgataaa ccctgtcttg tcgaggcagc aaccatcgt  360
tggagggtgcc atcttttaga ttacatatga gatgtactcg ataatg                    406

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<210> 11365  
 <211> 423  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-E3

<400> 11365

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ttccacagtt cctcccacca gttacttcaa tgggctttga acatccagcc gtgcaagcct  240
acaggctaca actagcgctt gcggcgagcg ccttacaaca accaattgcc caattgcaac  300
aacaatcctt ggcacatcta accctacaaa ccattgcaac gcaacaacaa caacaacagt  360
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tgc                                                              423

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<210> 11366  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-C7

<400> 11366

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 aaaaaataac ttaattggat acgaacacat aaataaaaaa aaaaaaatac aacaactaaa 240  
 aacttaaaaa aataatatta caacaacaaa aaaaaacaat tacaacaact ataaataaac 300  
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<210> 11367

<211> 380

<212> DNA

<213> Zea mays

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<223> Clone ID: LIB3059-028-Q1-K1-B12

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 actcgagtga ggggcagtaa agccggcttt atgtgcctag aaactagtag ctagtgtttg 180  
 ctgctgtcga atgacactat gcaatgtgat ctggaacctg gtttcttggg tgcgacgctt 240  
 gttatgactg tcgtcagtaa aatttggggg ctccccgtat gagatgctgc cgggcaaggc 300  
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<210> 11368

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-B2

<400> 11368

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 ttgcctggag ctgcaatcta tggcacttca actaggagat ttggaggttt ggagtttcag 180  
 caacataaag ttaatcacat ctcatcttgg cggaagcgt ctgttaaagc aacattgaaa 240

actgtgagat gcaatgccac tcaaacacaa agcgtccaaa agaaatcttc aagtgcaact 300  
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<210> 11369  
 <211> 389  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-028-Q1-K1-B3  
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 caagtgtggg aaaggcaaag tgtggcttga cccaatgaa gttagtgaga tctccatggc 180  
 gaactcccgc cataacatcc ggaagttggt taaggatggg tttatcatca agaagcctca 240  
 gaaaatccac tctagatctc gtgcaagaag ggcgcacgag gctaagcaga agggacggca 300  
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<210> 11370  
 <211> 367  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 11370

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 tggctcgacga cagtgttata cttgtttaca gacaaatacc ttgctggaag tcttagaggg 180  
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 gatagcc 367

<210> 11371  
 <211> 417  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-028-Q1-K1-B6  
  
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 gaaaacccaa ttcttcaacc ctacaggatc caacaggcaa tcacagctgg catcttacct 240  
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 ttattggcac aaaacatcag ggcacaacaa ctacaacaac ttgtgctagc aaaccttgct 360  
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<210> 11372  
 <211> 390  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 ggcgctgct tcgccccgga caccgtcaag gccactgct cctacgccgc caacagcttc 180  
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 aacgtcgacc cgagcgccaa tggctgcacg taccctgcga cccaagtgc tgctgcaacg 300  
 acgagcagca gcagcggttc ggccggcgtg tacagccctn cagcgatggg tccgtcggcc 360  
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<210> 11373  
 <211> 415  
 <212> DNA

<213> Zea mays

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<400> 11373

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ttagaacaac caattgccca attacaacaa caatccttgg cacatctaac catacaaacc 180

atcgcaacgc agcagcaaca agcactgagc cacctagccg tggatgaaccc tatcgcttac 240

ttgcaacaac agctgcttgc atccaaccca cttgcttttg caaacgtagc tgcataccaa 300

caacaacaac agttgcaaca gtttctacca gcgctcagtc aactagccat ggtgaaccct 360

atcgcttacc tacaacagca acaacttctt tcctctagcc cgctcgctat gggca 415

<210> 11374

<211> 87

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-C11

<400> 11374

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taatgagttt gcaatgggtc tgagtct 87

<210> 11375

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-028-Q1-K1-C2

<400> 11375

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atgctgatgg agactgtgag aatgacctcc aaagcctgat aagtgactgc aagacatacg 120

tgatgttccc agctaattcca aagggtccctc cttcggtatgc ttgctgtggt gtcatacaaga 180

aggcaaactg ttcttgcttg tgctccaagg tcaccaaaga aactgagaag gttgtgtgca 240

tggagaagggt tgtgtatgtt gctgagcagt gtaagaggcc atttgagcat ggcttccagt 300

gcggaagcta caaggttcca gcaaactgat gatatcacia gaggaagcg cttgacgtag 360  
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at 422

<210> 11376  
<211> 406  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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atatgggtag aatcccatgg ctatgcctat gccgtgatgc catcggccaa aggtcttgtg 180  
ccagagactc accncactt catcggcacc tactggggcg ccgtcagcac cgncttctgt 240  
gcggagattg ttgagtcgc agatgcctac ctctttgcag gccccatttt caatgactac 300  
agctctgttg gctactcatt cctcctcaag aaggaaaagg ccatcatcgt ccagcctgaa 360  
cgtgtgataa tgggggaatg ggccggcatt cggatgtgtg atgatg 406

<210> 11377  
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<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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tgcgttcatt attccacaat gtcacttgc tcctagtgc attattccac agttcctccc 180  
accagttact tcaatgggct tcgaacacct agctgtgcaa gccaacatgc aacaacaagc 240  
gcttgccggc agcgtcttac aacaaccaat tgcccaattg caacaacaat ccttgccaca 300  
tctaacaata caagccatca caacgcaaca gcaacaacag ttctaccag cactgagcca 360

cctagccatg gtgaaccctg ccgnetactt gcaagagcag ctgcttgcac ccaacccact 420  
tgctctggcg aacgtagttg ca 442

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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-028-Q1-K1-C6  
  
<400> 11378

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gcagtatgtt gaatcgaaca aggttagcac actaaagaga ttagggaccc atgacggacg 120  
aaaacttggc cctgggtgagg atcctccggc cattccaagc cgaagaccaa gcaacattgg 180  
tccattgtct gcctcaagcc cggaaatgat caccttagct tcaacaccag cacctgtatt 240  
ggctgctgca gctgcagtc tttccaaaga gaactccttt cctgctttgg cagcccctca 300  
gaccagtaag cgcgccatat caaaagcatg tggtagctct gcccatatta acaacaaatc 360  
tgttatagta tcag 374

<210> 11379  
<211> 411  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-028-Q1-K1-B10  
  
<400> 11379

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taccaggatt gcttctgagg gtctgaagca cagagtcttt gaggtttgcc tagctgatct 120  
tcagggcgac gaggatcaag cttacaggaa aatcaggctc cgtgctgaag atgtgcaggg 180  
caggaatgtg ctacaaaact tttgggggat gaattttacc actgataaat tgaggtccct 240  
agtgaagaag tggcagacat taatcgaagc ccatgttgat gtcaagacaa cgcacaacta 300  
catgttgctg tttgtctgca tcggtttcac caagaggcgc ccaaacagg tcaagagaac 360  
ctgctatgct caggcatccc agatccgtca gatccgcctg aagatgggtg a 411



<210> 11380  
 <211> 342  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-027-Q1-K1-H5  
  
 <400> 11380  
  
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 catggatcag atgaataagg ttgattgccc aaatccgacc gatcatgctg cactttgatc 180  
 ctgtcgctct acagcagaac gttcccaatg actgggacca ggcggtcctg aatctgacca 240  
 tgaatgtcaa caaaatcgta tctgaaatgg accactatat aatttcaaca ttccttgcca 300  
 aataccagga tcaagaagta catccctcaa cactaaaagc ct 342

<210> 11381  
 <211> 374  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-027-Q1-K1-H6  
  
 <400> 11381  
  
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 tctgctgcgg ctgcttgggc tacgccgctt tcggcagcga cgcgccgggc aacctcctta 180  
 ccggcttcgg cttgtacggt ccgtactggc tcatcgactt cgccaacgcg tgcacatcc 240  
 tccacctgct gggcggttac caggtgtaca gccagccgat attccagttc gcggagcggc 300  
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 tcgcgtgcct gcag 374

<210> 11382  
 <211> 227  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-027-Q1-K1-H7  
  
 <400> 11382

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tacttatact ttcaaacttg cctttattca ctcttatccc atatacaa atattcagat 120  
caataactcaa accataatct atatatgcat tagcttactc taaacattgc aaaacatctt 180  
actacaaata ttacacatt gaaattaaaa ccttaactca acctatt 227

<210> 11383

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-H8

<400> 11383

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acaacttggt ctagcaaacc ttgctgcata ctctcagcaa catcagtttc ttccattcaa 180  
ccaactggct gcattgaact ctgctgctta tttgcaacaa caactaccat tcagccagct 240  
agctgctgcc tacccccagc aatttcttcc attcaacaa ctagcagcat tgaactctgc 300  
tgcttattta cagcagcaac aactactacc attcagccag ctagctgatg tgagccctgc 360  
tgccttcttg acacaacaac agttgttgcc gttctaccta cacgctatgc ctaacgcttg 420  
caccc 425

<210> 11384

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-H9

<400> 11384

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aggcggtgac caatgggtta gccactacca atggattaag taactgctgt ctctgttgta 120  
ggtactcagc atagttcgac agagtcagtt ggttgaatgg aagcagctgt tgcaagtagg 180  
caataggggt tgccacagca gcaacatttg ctgccttaca accagatctc tatgatgtat 240  
cctatgttgc cgaggcatca tcccatcggt ggaggtgcc ttttttagat tacatatgat 300

atgtactaca ttacggtgcc ctctaccga catgtgttta ctagatgtaa tcaat 355

<210> 11385

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-A1

<400> 11385

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gagtgcacta ctggatgatg aaccacataa tgatatatac agaagcttta ctgatatcat 120

aaaaaatcct ggtcctaaga caactttcga agttggaatg ttagctggtg attcatggaa 180

gaaggtcaag agcgacaaac gaaatgacca gagcaatgcc aatgacatta ccaataaatc 240

caaaataaccg gttccttcta ttgtagaccc acagcctaag caacaggatc acaattccga 300

ttcagatttt gagggaaa 317

<210> 11386

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-A11

<400> 11386

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tggttcggcg acatcggcat tcagatagca ctggtagcac gacttcctcc agaagcaatc 120

caatgcgaga agacatgttg aaccgatcaa acacacatcg tgctagaagt cagtttttag 180

aaaatcacct ggcaaagtta tttgagcaaa aaatggaaat attcaccaaa gttgaataca 240

cacaggaatc tgttatttct actgtcctca agctctgcct gaaaagcttg caagaatttg 300

tccgtcttca gactttcaac agaagtggat ttcagcagat tcagctggat atggaatttc 360

tcaagacctc tcttaaggaa tttgtggatg atgaagcagc cattagcttt ttac 414

<210> 11387

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-A12

<400> 11387

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caacagtacc taccagcact gagccaccta gccatgggtga accctgccgc ctacttgcaa 180  
gagcagctgc ttgcatccaa cccacttgct ctggcgaaac tagttgcaaa ccagcaacaa 240  
caacagctac aacagtttct gccaacgctc agtcaactag ccatgggtgaa ccctgccgcc 300  
tacgtacaac aacaacaact gctttcatct agcccgctcg ctgtgggcaa tgcacctaca 360  
tacctgcaac aacaattggt gcaacagatt gtaccagctc tgactcaact agctgt 416

<210> 11388

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-A2

<400> 11388

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ttgatattgt tgggtgttcag actgtaataa atttcgcatg cccaagagat gtgaaaactt 180  
atcttcatcg tgttggccgc actgcgcggg caggaagaga aggctatgct gtgacatttg 240  
taaccgatga tgatagatgc ctcttgaaag caattgcaaa gaaggctggt tcacagctga 300  
aaagtgcgat tgttgcagag aaacctgtgg ctgagtgtgc acgactgatt gagcaactag 360  
aaggccaaat ttctatcatc attcgagaag aaagggttgg aagaga 406

<210> 11389

<211> 341

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-028-Q1-K1-A3

<400> 11389

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 cggacagtga ctacaccgag tttgagaact tcaccaagtg gtcgggagtg acgcagtgaa 120  
 gcggcctttg aggcctagtt aagttttgag tagttgtgtc gctgaacttg tattgagacg 180  
 aaatagtatt tttatcaatc tgtcttatcc tgcgtcttca caacaagttg cctatctgtg 240  
 gactttaagc ctgcatgttc gttntatttc tccattgccg tgggagcata gtatttgcac 300  
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<210> 11390

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-A5

<400> 11390

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 aaaaaatcct ggtcctaaga caactttcga agttggaatg ttagctggtg attcatggaa 180  
 gaaggccaag agcaacacag gaatggacca gagcaatgcc aatgacatta ccaataaatc 240  
 caaagtaccg gatccttcta ttgtagaccc acagcctaag caacaggatc aca 293

<210> 11391

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-A6

<400> 11391

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 caatcatcag ccctattaca tcagttacct ttggtgcatt tattggcaca aaacatcagg 180  
 gcacaacaac tacaacaact tgtgctagca aaccttgctg cctactctca gcaacagcag 240  
 tttcttccat tcaaccaact agctgcattg aactctgctt cttatttgca acaacaacaa 300  
 ctaccattca gccagctacc tgctgcctac cccagcaat ttcttccatt caaccaactg 360

gcagcattga actctcctgc ttattttacag cagcaacaac tactaccatt cagccagcta 420  
gctgggtgtga gcc 433

<210> 11392  
<211> 378  
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<213> Zea mays  
  
<223> Clone ID: LIB3059-028-Q1-K1-A8  
  
<400> 11392

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gtcctcagat ccaagatcat cctcgatcgg gagacgcaga ggtcccgcgg cttcggcttc 240  
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ggcgggtgggt acggtggt 378

<210> 11393  
<211> 411  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-028-Q1-K1-A9  
  
<400> 11393

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atcttccgc aatgctcaca agctcctata gcttccttc tttccccgta cctctcacca 180  
gcgggtgtctt cggtatgtga aaaccaatt cttcaaccct ataggatcca acaggcaatc 240  
gcagctggca tcttaccttt atcacccttg ttcctccaac aatcatcagc cctattacag 300  
cagttacctt tgggtgcattt attggcacia aacatcaggg cacaacaact acaacaactt 360  
gtgctagcaa accttgctgc ctactctcag caacagcagt ttcttccatt c 411

<210> 11394

<211> 420  
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 acaatccttg gcacatctaa ccctacaaac cattgcaacg caacaacaac aacaacagtt 360  
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<210> 11395  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-027-Q1-K1-H4  
  
 <400> 11395  
  
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 ctccattaaa tccttgtcac ccaatgtgta cttcgtgttt gcgtgtgctg cttcagggtgc 240  
 cagctctcca gagattcatg cgaagtcgag cacacattca ccagcaaaca ggtgtccaca 300  
 ttacatcttc aactatctac acttctacct tacacattgc tagggtaaatt gtgagggacc 360  
 ctggtacaat aaacgatggc ctcggtgctg ctcgtgaagc agatgcccta ttg 413

<210> 11396  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-027-Q1-K1-F6

<400> 11396

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ggctgctagt ttcaacatca ttcccagcag cactggagct gctaaggctg ttggcaaagt 180

gcttcctgtc cttaacggaa agttgactgg aatgtctttc cgtgtcccaa ccgtcgatgt 240

ttctgttggt gatttgactg ttaggcttga aaagtcagca acctatgatg agatcaaggc 300

tgcgggtcaag gccgaggcag aaggtagcct caagggcatc ctgggttacg ttgaggagga 360

ccttgtttcc accgatttcc aggggtgacag caggtctagc atctttgatg ctaaggctgg 420

ca 422

<210> 11397

<211> 425

<212> DNA

<213> Zea mays

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<400> 11397

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gcgcacagcg ccgaagtcgg acgatgttta tctcaagctc cttgtcaagc tctaccgttt 180

cttggtcagg aggaccaaga gcaacttcaa tgctgtcatt ctcaagaggc tcttcatgag 240

caaaaccaat cgcccaccaa tctccatggc ccgccttgct aagttcatgg aaggaaagga 300

gaagaacatt gctgtgattg ttggcacagt cacagatgac aagaggatcc aagaggttcc 360

agcaatgaac gttactgccc tgaggttcac cgagactgct agggccagga ttgtcaatgc 420

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<210> 11398

<211> 263

<212> DNA

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<223> Clone ID: LIB3059-027-Q1-K1-G1

<400> 11398



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 cctagtgccca ttattccaca tttacttcta ccacttactc tcacgggcta ttaacatcaa 180  
 actttgcaat cttacaagct acaactatct cttgccgcta gcgctttaca tacaaccaat 240  
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<210> 11399

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-G10

<400> 11399

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 gtaggtttgc tgtccgtgac atgaggcaga cggttgctgt tggagtatc aagagtgtgg 240  
 agaagaagga cccgaccggc gccaaaggta ccaaggcggc tgccaagaag aaatgatgcg 300  
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<210> 11400

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-G12

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 ttgttaagag gcttgccaag aagtaccatg ctttcttggc atcagaggcc atcatcaagc 180  
 agattccccg tctccttggc cctgggtctca acaaggcagg caagttccccg accctgggta 240  
 ctcaccagga atccctcgag tccaagggtga acgagactaa ggcaacagtc aagttccagc 300

tcaagaaggt cctttgcatg ggtgtcgccg tccgcaactt ggcatggag gagaagcaga 360  
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<210> 11401  
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<213> Zea mays  
  
<223> Clone ID: LIB3059-027-Q1-K1-G2  
  
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cgtcaccact tctccgtgg tacagtcgtt cacctagacg gtcctccta tgttctggcc 180  
tggagcgatg catgtacgag tacgattgca gtttttttgc ttggcgtggc tgatggatgat 240  
gcgcgatctg tgactgtgag agagaaagct tgggtgccaa ccgttcagtt cagacggatg 300  
gcatatgcag gatgcagcag tagtttagta gtgccacgc gtttcttctg ttgtgtgtgt 360  
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tttgct 426

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cggacatcgt ccctggctga cgggcaggag gaggttaacta actgaccgac gaccatttcc 120  
tcgccgctcg gtttccacaa tctatcggcg tcgtcgtcgt ccctgaaatc ctgaaaatct 180  
atcggcacgc gtggccacaa tgctgtgtga tgatgacagg ccaagaccct ggaggccagg 240  
ctcaccagg tcagcgagga gaaccggcg ctcaccgaga tcatcgccta catgtacgcc 300  
agccaggctg ccgcgcagcg gaggccgac ggaggaaga ggagcaggga ca 352

<210> 11403

<211> 149  
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 <213> Zea mays  
  
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 ctgcgcggag ctgcacggct tgtacagct 149

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 <212> DNA  
 <213> Zea mays  
  
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 tcctatttaa aacacatgaa acctttgaaa attcataact caaatgctat aactccaaaa 180  
 attatgattc ctgttcctag gattttatta taatgtgtag aatattactg tgtgttttgt 240  
 ttacatgttt ggtgtgatgt taatttccct atatacgggtg tttgtttgta ttgtggcgag 300  
 tagaagaacc cgtgaccgag gatcctgggtg agcagcaggt tgaagtagct gagcaggagc 360  
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 <211> 421  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-027-Q1-K1-G8  
  
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 tcgcaacaca acagcaacaa cagttcctac cagcactgag ccaactagat gtggtgaacc 180

ctgtcgccta cttgcaacag caggtgcttg catccaaccc acttgctctg gcaaacgtag 240  
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tggtgaaccc tgccgactac ctacaacagc aacaactgct ttcattctagc cctctcgttg 360  
tggtgaatgc acctacatac ctgcaacaac aattgctgca acagattgta ccaactctga 420  
c 421

<210> 11406  
<211> 415  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-027-Q1-K1-G9  
<400> 11406

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ctaacgcgac aattttccct caatgctcac aagctcctat agcttccctt cttcccccat 180  
accttccatc aatgatagct tcagtatgtg aaaaccagc tcttcaaccc tataggctcc 240  
aacaagcaat cgcagcaagc aacatacctt tatcacctt gtttcaacaa tcgccagccc 300  
tatctttggt gcagtcattg gtacaaacca tcagggcaca gcagctgcag caactcgtgc 360  
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<210> 11407  
<211> 393  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-027-Q1-K1-H11  
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gccctgcccc tgcgcggggc tgcagggtt gtaaggcgct ggcgccggcc tgacgacgat 180  
gatgggcgcc ggcggtgtgt acccctacgc ggagtacctg aggcagccgc agtgcagccc 240  
gctggcgggc gcgcctact acgccgggtg tgggcagacg agcgccatgt accagccgct 300

ccggcaacag tgctgccagc agcagatgag gatgatggac gtgcagtcg tcgcgcagca 360  
gctgcagatg atgatgcagc ttgagcgtgc cgc 393

<210> 11408  
<211> 248  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-H2

<400> 11408

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa 180  
aaaaaaaaaa aaaaaaatga aaaataaaaa atatataata agacaacgaa atagaaaaca 240  
aaaacata 248

<210> 11409  
<211> 129  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-H3

<400> 11409

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accatcattc acatcccaat agacgtctct aataactcat tctacctcct attaaattcc 120  
ttactaaaa 129

<210> 11410  
<211> 408  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-F5

<400> 11410

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ctaccacccat tcagccagct agctgatgtg agccctattg ccttcttgac acagcaacac 180  
 ttgttgccgt tctacctgca cgctgcacct aacgctgtca ccctcttaca actgcaacaa 240  
 ttgctgccat tcaaccaact tgctttgaca aaccaacag cgttctacca acaacccatc 300  
 attgctggtg ccctctttta aattgcttat gagttatagt tcaataatga aatttttttg 360  
 atgatgtttg tagctatcca gaaataaaaa agtacatttc tagatctt 408

<210> 11411

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-D9

<400> 11411

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 ccttgctgac gccacaatgc tccctcaatg ctaacacgct cctatagcta tcattattgc 180  
 gccatacctt gcatacatta tagctccaat atatgaaaac ccagctattc aaccatatct 240  
 gctgcaacac gcactcgcca taagcagcat acctaaatcg cccttgttga cacaacattc 300  
 gtcagtcta tcttttagcg aggcacgtg acataccatc atggcacaac acctgtacca 360  
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<210> 11412

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-E1

<400> 11412

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 atcaggaaat ccgtttgctt catgttatgc aggcacagat ctgattgctg gattcggcat 180  
 cttacgggct tgaatagagc taggactggg agaaaacaac aaacccgcgt tggatcctgt 240  
 atcggttagt ccttgccttc aaggttcatg ttgttttggt ttgggtggtcg agcatcgcat 300

gttctgcttc tggttccaga tctggagaaa tttctaagtc gtcgtcgtcg tcgtcgttcg 360  
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<210> 11413  
<211> 404  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-027-Q1-K1-E10  
  
<400> 11413

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gggagttaaa gctgtaattg ccaagagctt tgagcgtatc cacagaagca acttggtggg 240  
gatgggaatc attcctctgt gcttcaaagc tggtgaggat gctgattcgc ttggcctcac 300  
tggacatgag cggtagagca tcgatctccc taccaacctc agtgagatcc gtcccggcca 360  
ggatgtgact gttactaccg acaatgggaa atctttcact tgca 404

<210> 11414  
<211> 398  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-027-Q1-K1-E11  
  
<400> 11414

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cgctgtactc attagttgct ggagtctttg gtatgaatat tccgtatacc tggaatgacg 180  
gccacggata catcttcaaa tgggtgggtc ttgtatcagg gcttttttgt gcctttatat 240  
ttgtctccat tggtgcttac gcacgacaca aggggctcgt cggatcctga atagctgaaa 300  
taaccgcgta cttgcttccc tcaactgtaa atttgagcca gtgagcatcg actttgcggy 360  
gtgattcatc tggtgtacca aattcggtag tatcaaat 398

<210> 11415

<211> 413  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 gcgcctcccg tggccggagc tgaagaggag atgctgccgg gagctggcgg acatcccggc 240  
 gtactgccgg tgcacggcgc tgagcatcct catggacggc gcgatccgc cgggcccga 300  
 cgcgcagctg gagggccgcc tagaggacct gccgggctgc ccgcgaggag tgcagagggg 360  
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<210> 11416  
 <211> 415  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-027-Q1-K1-E3  
  
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 cagctgcttg catccaaccc acttgctttg gcaaagtag ctgcatacca acaacaaca 180  
 cagttgcaac agtgtctgcc agcgctcagt caactagcca tgggtgaaccc tatgcctac 240  
 ctacaacagc agcaacttct ttcattctagc ccgctcgcta tgggcaatgc aactacatac 300  
 ctgcaacaac agttgttgca acaaacaggt gctgaacaaa attgtaccag ctcttactca 360  
 gctagctgtg gcaaaccctg ctggctactt gcaacaacta cttgcattca accaa 415

<210> 11417  
 <211> 288  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-027-Q1-K1-E5



<400> 11417

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ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc cgcacaaccc 180  
gtccccgagc tgccgctggt acgtgaccag ccggacctgc ggcatcgggc cgcgcctacc 240  
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<210> 11418

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-E6

<400> 11418

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gttatcacga tctgatgtcg tgaagaaaat gtgggattac ataaaaggga acaacctgca 180  
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gtagcaacct gccatccaca tcttctaaaa ccaaaaaggc ttggtaattt tgtttttgca 360  
gaatgtgtaa tcatggaaca gttaggagct atgtgggtgg tgtgaatttt tttttggtta 420  
cctatggg 428

<210> 11419

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-E7

<400> 11419

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gggaggattt tgctgtgggg gataaggatg ctgtgggtcat tgttgatcat gggtaagac 180

gccaagaatc caatctcatg ctaaatagact ttgttgagat gttccgggcg aagactagct 240  
atagtattgt tgaggctgct catatggaac tagcgaacct tcctataaag aatcttttgg 300  
aaaatgtgtt ccaccaggaa cattaacagg taatggcaag ccatattttc ttttccc 357

<210> 11420  
<211> 357  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-027-Q1-K1-E8  
<400> 11420

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acggtgactc acagtaacaa gggcactgat agacaatctg acaaatacaa gcgcactaat 180  
taccaagggc agtcaggata tggacgtcag accaatcctg tcttccacat gatggccaag 240  
agcacctaca agattgttct gaaactgcca tgactgagca gcaagcacta ctcacaagga 300  
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<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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 <213> Zea mays  
  
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 gacgtacacc acatcacgtt actgcaataa gcggtctcgc taggcgctct gcccgatcgt 180  
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 <212> DNA  
 <213> Zea mays  
  
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 gaggtgccat atttcttgct catgtaatgt tatttggtgt atgctcgttt gtatgtacta 240  
 catgaagcat tgtaaaattg agcaacagca accagagctc gagaatctta ggcgcaacca 300  
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<210> 11424  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
  
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<400> 11424

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cctagtgcc a ttattccaca gttcctccca ccagttactt caatgggctt cgaacatcca 180

gccgtgcaag cctacaggct acaactagcg cttgcggcga gcgccttaca acaaccaatt 240

gcccattgc aacaacaatc cttggcacat ctaaccctac aaaccattgc aacgcatcaa 300

caacaacaac agtttctgcc atcactgagc cacctagccg tggatgaacc tgtaacctac 360

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caacaa 426

<210> 11425

<211> 400

<212> DNA

<213> Zea mays

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<400> 11425

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tatgaagatg tggcctctgg aagtgaatc cggagcgtgg tgttggctgg gcggaggttt 180

tatgagaaag agggcctccc agcttttccg atgggcaaca tcgaccaaac tcgcatgtgg 240

aaggttggtg aaaagggtgcg ctcaaccgt cgggaagggtg atcttggccc gctccatgcc 300

ttcactgctg gagtgtacat tgccctgatg atggctcaga ttgagatcct gaggaagaaa 360

gggcactcct actctgagat catcaacgag agcgtgattg 400

<210> 11426

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-D8

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 ccagtaggac ctctggttc atatggtctt ttctcttcat atggtccacc tgggccaatg 240  
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 ccca 424

<210> 11427  
 <211> 387  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-027-Q1-K1-C11  
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 cacaagctcc tatagcttcc tttcttcccc catacctctc accagcgggtg tcttcagtat 180  
 gtgaaaaccc aattcttcaa ccctacagga tccaacaggc aatcgcagca ggcattctac 240  
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 <211> 402  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 atgctgctgc taccagcagc agcgagaaga agacgtcgtg gccggagggtg gtgggcatgt 180

ccatcaagga ggcgacggag actattctca aggacatgcc caacgcgtac atccaggtgc 240  
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<210> 11429

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-C3

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 aaaactcgtc atctccgcga atgttgaacc tgtaaaacta ctttttttaa aaagcatctc 180  
 actggagagt ttgaaaatta atatggacca accattggta ttgaaattca tccgttagat 240  
 ttcaacacta acctttgtaa aatcaaggtc tacttcttgg ataccctacg gcaagaaaaa 300  
 tttggtggcc ttaaggattg ataccatatt cattgccaat gttccatcat tatgcttgat 360  
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<210> 11430

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-C4

<400> 11430

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 gctacctaac ctctcagcaa ctgtggctgc tgtgaagaat cctaacccta aggtgggttta 120  
 tgatgagtac aaccatgaaa gatatactcc tggagatccc agcaagcgtg cttttgcata 180  
 ctttgacctg agtgggtggga ggttcatata tgctgcactg ctgcatcttc tcgtactgaa 240  
 gtgtgcactg agcatgtcag cagcgaagga tgtgcttgcc cttgcttcac tagagggtga 300  
 cctgtccagt atcgagccaa ggaccacagt gaccgtgaaa tggcttggaa agccagtctc 360

tatcatgcgt cggacagagg atgacatcaa gcttgtcaac agtg 404

<210> 11431  
<211> 322  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-027-Q1-K1-C5  
  
<400> 11431

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aagcacgctt gtctttctaa atgatctgaa cttacgagca cattacatca cagctatcaa 120  
tttctcctag ctacaatatt tcgctgtacc caccaactat ctctaacatg ggacgatgaa 180  
atcccacagt ctaaatctaa ctgttacaac ctaggcacg atccaagaat gttacacttt 240  
ctataatgtt gaatcgcaat aactccatgt cgtctcatac ataacctaca gtcacattgc 300  
atcgagatca accacaacat ca 322

<210> 11432  
<211> 354  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-027-Q1-K1-C6  
  
<400> 11432

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aatagtatctt ctcagcgaca tatctctgca cttcctgaca caattcatgg ctgcaatcca 120  
tatgaaaaaa atattacaga aagatgtata cagcaatcat gcaaaacatt gcaagttgta 180  
atctcagagt ggatatcaaa atttgacaac atggaaattg atcgttcaag gttgcaattg 240  
aataatgtgg atgcaattac ttccaggaca tatactctgca accattgcta cagcaagttg 300  
gctgatttcc tgctctactg attccgtgta tcattgtccc aaaatctttt tcca 354

<210> 11433  
<211> 429  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-027-Q1-K1-C8

<400> 11433

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caagatattt tccctcctta tgctccttgc tctttctgca tgtgttgcta acgogacaat 120  
tttccctcaa tgctcacaag ctccatagc ttccttctt ccccatacc ttccatcaat 180  
gatagcttca gtatgtgaaa acccagctct tcagccctat aggtccaac aagcaatcgc 240  
agcaagcaac atacctttat caacccttgt tgtttcaaca atcgccagcc ctatctttgg 300  
gtccagtaat tggccaacc caatcaggca ccaacacctg caaccacctc gtcctacctg 360  
tgatcaacca agtagctctg gcaaaccctt ctccctactc tcagcaacaa caatttcttc 420  
cattcaacc 429

<210> 11434

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-D1

<400> 11434

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tcagtacaag atcgttctcg atcggttgac tcagacgtct ctgggttgg gcttcatgac 180  
gggcccacag tggaggcgat gcttaacggc atacatggca tgaacgcaa cgcgcttgac 240  
tgtcgcaaca tgaccgggca cgatgaccag tcccggggcg gtcttagagg ccgcagcggc 300  
aggttcgggtg gtggtcacgg actcggctgc tacggc 336

<210> 11435

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-D10

<400> 11435

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caggacattg ctctggctga gcttgctcca actcacccta ttaggcttgg actggcactt 120



aacttctcag tgttctacta tgagattctg aactcacctg atcgcgctg cagtcttgca 180  
aagcaggctt ttgacgaggc catctcggaa ctggacaccc tgagcgagga gtcctacaag 240  
gacagcactt tgatcatgca gtccttctgt gataacttga ccctatggac ttctgacatc 300  
tcggaggacc ctgctgaaga gattagggag gcaccaagc gcgactcgag tgaggggcag 360  
taaagccggc tttatgtgcc tagaaactag tagctagtgt ttgctgctgt cgaatg 416

<210> 11436

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-D12

<400> 11436

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gccagccgcg ccatggagca agccgccatg ccgcaggttc cccgcgtcaa gtcgggcac 120  
caggggcttg aggtgtcgaa gctgggggttc ggggtgcatg ggctcacggg cacctacaac 180  
gcgccgctcg gcgacgaggc cgtggccgcc gtcgtcgcg acgccttccg ccgcgggac 240  
accttcttcg acacctccga tgcctacggg ccccgcacca acgagaccct cctggggaag 300  
gcgctcaagc agctgccgag ggagcagggtg cagggtggcca ccaagtccgg gataggtcag 360  
ggcgccgctg gcatgaccgt gtgcggcacg cccgagtacg tacgcgcct 409

<210> 11437

<211> 163

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-D2

<400> 11437

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gctctcaaaa atcatagctc ctctaattca tgctgaatct tatcaccttc atacacacaa 120  
catctatcta catctttccc acatactact acctatcatc tat 163

<210> 11438

<211> 416

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-027-Q1-K1-D4  
 <400> 11438  
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 gcgctcgctg cgagcgccgc ctccagtaca agcggcggct gtggctgcc aacaccaccg 120  
 tttcatctac cgctccggtt ctatatgccg cctccgttct atctgccgcc gcatcagcag 180  
 ccgcagccat ggcaataccc cactcaacca ccgcagctaa gcccgtgcca gcagttcgga 240  
 tcctgcggcg tccgcagcgt cggcagcccg ttctggggcc agtgcgtcga gttcctgagg 300  
 caccagtgca gcccgcgggc gacgccctac ggctcgccac agtgccaggc gctgcagcag 360  
 cagtgtgcc accagatcag gcaggttgag ccgatgcacc ggtaccaggc gacata 416

<210> 11439  
 <211> 330  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-027-Q1-K1-D5  
 <400> 11439  
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 ttccaggaag acggggtcga cggatgatgtg gctgtcgatg cggacggaga aggggcggga 120  
 ccagagcagc accgtggcct cgcggcgcat ctgcagggcc gcgtccagct ccatgtggcg 180  
 gcgcgcgacg tcagagagga gggcgcgggc gcgggtgcgc agctcgacac cgtcgaggcg 240  
 cgccgggagg tggagcacgc ggcaggaggt ggcgggctgc tcgccggcgt cgaggcgggc 300  
 ggtgccgacg tgcgcgccgt cgtaaaggat 330

<210> 11440  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-027-Q1-K1-D6  
 <400> 11440  
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atgggtccta aagctgctcc tgccaagaag ggtgatgcca agaccagggc cttgaaggtt 120  
gccaaggctg tgaagtctgg ggcagccaag aagaagacca agaagatccg cacgtctgtg 180  
acatttcacc gccccacgac cctgaagaag gctagggacc ccaagtaccc acgaatcagc 240  
actaccggaa ggaacaagct tgatcagtag caaattctta agtaccctct taccacagaa 300  
tcagcgatga aaaaaaatga agataacaac actctgggtc tcattgttga cctcaaggca 360  
gacaagaaga agatcaaggc tgccgtcaag aagatgtatg acatccaggc aaagaaggtc 420  
aaca 424

<210> 11441  
<211> 382  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-027-Q1-K1-C10  
<400> 11441

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acgaccacca gcagcagcaa gaagtcgtcg tcgccgtcgt cctcgagctc ggccgagcgg 120  
gcagcagctg ccgccctgct cgtggcggtg tccgtcctgg tgggtgggcgc ggccggcggtg 180  
tgcgacatga gcaacgagca gtatcatgtc tgccagcccg cgccggccaa gacgacggac 240  
ccgccggccg cgccgtcgca ggcgtgctgc gacgcgctgg cgggtggcgga cctcaagtgc 300  
ctgtgctggc acaagaactc gccgtggatg ggcgtctaca acatcgaccc caagcgcgcc 360  
atggagctgc cggccaagtg cg 382

<210> 11442  
<211> 403  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-027-Q1-K1-A5  
<400> 11442

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catggccaag ttgctcgtca ccgacgaggc gcgcaaggag ttccgccgtcc tgcgacgcgc 120  
tttccatgac gtcaaccacc agctccagac caagttctcc caggaacccc agccgattga 180

ttgggagtag tacagaaaag gaattggatc aaaagcgggt gatatgtaca aagaggcttt 240  
 tgaaagcatc gagatcccgga agtacgtcga cacagttact acccagtaca agccaaagtt 300  
 tgatgctgcg attgctgaat taaaggaggc tgaaaaagag catcataagg agtcagaaaag 360  
 gatagagaaa gaacttgctg aaatggaaga aatgaggaaa aag 403

<210> 11443

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-A6

<400> 11443

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 gcttccttat gtccttgggt ctttctgcaa gtgttgctac cgcaaccatt ttcccacaat 120  
 gctcacaagc tcctatagct tcccttcttc ccccatacct ctcaccagcg gtgttttcag 180  
 tgtgtgaaaa cccaattgtt caaccctaca ggatccaaca ggcaatcgca acaggcatct 240  
 taccattatc acccttggtc ctccaacaac cgtcagccct attacaagag 290

<210> 11444

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-A7

<400> 11444

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 ttgcgcttat tgccctttta gtgagcgcaa cagatgcgtt cattattcca cagtgtcac 120  
 ttgctcctag tgccagtatt ccacagttcc tcccaccagt tacttcaatg ggcttcgaac 180  
 atccagccgt gcaagcctac aggctacaac tagcgcttgc ggcgagcgcc ttacaacaac 240  
 caattgccca attgcaacaa caatccttgg cacatctaac cctacaaacc attgcaacgc 300  
 aacaacaaca acaacagttt ctgccatcac tgagccacct agccgtggtg aaccctgtca 360  
 cctacttgca acag 374

<210> 11445  
 <211> 361  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-027-Q1-K1-A8  
  
 <400> 11445  
  
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 cctagctgac ctcccagcaa ctgtggctgc tgtgaagaat cctaacccta aggtgggttta 120  
 tgatgagtac aaccatgaaa gatatcctcc tggaaatccc agcaagcgtg cctttgcata 180  
 ctttgtcctg agtgggtgtga ggttcatata tgcttactg ctgcatcttc tctactgaa 240  
 tgatgtcctg agcatgtcag caagcaagga tgtgcttgcc cttgcttcac ttgaggtgga 300  
 cctttccagt atccagccag tgaccacagt gaccgtgaaa tggcgtgtaa agccagtctt 360  
 t 361

<210> 11446  
 <211> 396  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-027-Q1-K1-A9  
  
 <400> 11446  
  
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 ggcggcggcg cggtcagttg aaccatggcg gactccaagg ccacctcggc ggtaaccctc 120  
 cgcacccgca agttcatgac caaccgcctc ctggcccgca agcaattcgt gcttgaggtg 180  
 atccaccccg gccgcgcaa cgtctccaag gcggagttga aggagaggct tgccaaggcg 240  
 tacgaggtga aggaccccaa caccatcttt gtcttcaagt tccgcacca cttcggagga 300  
 ggaaagtcca ctggtttcgg cctcatctac gacaacctcg aggctgcaa gaagtctgag 360  
 ccgaaatacc gnetcatcag gaatggtctt gctact 396

<210> 11447  
 <211> 369  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-B1

<400> 11447

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tgggtccaca ttatgttaag gaactcactt atggcccaga taaacgtggt gagttggatg 120  
gtgtccttcg cacaaagcct tttgaaattg gcattgtaaa tggcatggat gtttatgaat 180  
gggatccttc aacagataag tacaccagcg tgaaatatga tgcaacaacg gtaactgaag 240  
caaaggctct caataaagag aggttgcaag ctgaagttgg attgcctgtg gactcgagca 300  
tacctgatat agtcactgtc gggcgtcttg aagtacagaa aggtcttgac atactcattg 360  
catccattc 369

<210> 11448

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-B10

<400> 11448

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ggagaatggg ctggtgccaa ttgttgagcc tgagatcctt gttgatggcc ctcatgacat 120  
tgatcgctgc gtttacgtca ctgagaccgt ccttgctgcc tgctacaagg cgctcaacga 180  
gcaccatgtc ctcttgagg gtaccctcct gaagcccaac atgggtgactc caggctccga 240  
ctccaagaag gtgacccttg aggtgattgc tgagtacacc gtccgtaccc tccagaggac 300  
cgteccctgct gctgtgcctg ctgttgctct cctctctggg ggacagagcg aggaggaggc 360  
caccgcgaac ctcaatgcc a tgaacaagct cagca 395

<210> 11449

<211> 238

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-027-Q1-K1-B11

<400> 11449

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gagcgaacca tgcattgaccc cccaaccaag ttcatttcat cctttcatgc atgtactatg 120  
 tatgtagctc tacatatata tatattgcta ctactatcaa gcatgtatgt cgccgttgtg 180  
 gagacacatc tattgatcta tacatgagct tgtggaagca gataggtctg cattaatt 238

<210> 11450  
 <211> 183  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-027-Q1-K1-B12  
 <400> 11450

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 cggtcgacca gaaccttgag ctgcgaagc aatgctcgcg agagggccgc ctgcgagggt 120  
 tcaaggcagc agctgtcgcg accgtcgctt ctgcagttcc caccctgggt agcgtcagga 180  
 tgc 183

<210> 11451  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-027-Q1-K1-B2  
 <400> 11451

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 gccaaactaaa tggatccatt ataccatctg aacgacaaa ccatatgatg atggaggtgt 180  
 ggaatcccct tggagttgtg ggtgttataa cggcatttaa tttcccttgt gctgtgcttg 240  
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 caactccact gatcactatt gcaatgacaa aaatagtggc tagtgtattg gagaagaaca 360  
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 ccct 424

<210> 11452

<211> 401  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-027-Q1-K1-B6  
  
 <400> 11452  
  
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 cggagccctt caacataagc acaattcact tgcaaagcat cttcaacagc tcaggatgaa 180  
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 cagttaaagc tttgtagtgc tgtctgtcag ttgctgcctc aaacttggaa tactacttct 300  
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 <211> 389  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-027-Q1-K1-B7  
  
 <400> 11453  
  
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 acccacttgc tctggcaaac atagttgcat accaacaaca acaacaattg caacagtttc 180  
 taccagcgct cagtcaacta gccatggtga accctgccgc ctacctaaa cagcaacaac 240  
 tgatttcata tagccctctc gctgtggtta atgcacctac atacctgcaa caacagttgc 300  
 tgcaacagat tgtaccagct ctgactcagc tagctgtggc aaaccctgct gcctacttgc 360  
 aacagctgct tccattcaac caactgact 389

<210> 11454  
 <211> 321  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-027-Q1-K1-B8



<400> 11454

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caaccaccca ccattgcaag cgttgtattc ccgttgcagc agccactgtc accatcagca 180

atgaccaaac cacctcatgc tgcaccacca ctcgaaactga agctctttcc ataagtggca 240

tctggcgaaa gccatcaacc ctgtgaagac caccaagctc ccaaccatgt ggcacgacca 300

ccggccaggt acccaacgca a 321

<210> 11455

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-B9

<400> 11455

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cccgacccgg acgtcatcaa ggagaccgcc accaagacgt tccacgacct ctacgactac 180

ctactcaaga actagatgga gcgacaactg gagatgggtcc agtacagtac agttccagtc 240

cattcatcga cggtcacag ttactagtgc cacgtcgtcg gtgtggtctg gtgcccgtgc 300

tggttactta atttgcttgc tagctagcta cgtaccgcgg tccgagtcct tgtctatggc 360

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<210> 11456

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-A3

<400> 11456

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acgaggaaaag atgctgaggt tcctggttca gtggcagtcc ggccggagcg gaagctagac 240  
cacgcgtgga tgggtgtattc gtcgctgaaa gaagagtctg gggatcaggc ggacacgtcg 300  
caggtatgcg aagccctgct gactctactt gtcgaggttg cacaaaagag gacgcatgag 360  
atggcaat 368

<210> 11457  
<211> 311  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-026-Q1-K1-G6  
<400> 11457

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gtttatgagg aaacagctgg actgatggtt aatgaccctg tattgagaac aagaaagcct 120  
ctttcagttg aattgggacc tggaattctt ggaaacattt ttgacggtat ccagcgacct 180  
ctaaaaacca tcgctattaa gtcaggagat gtgtatattc ctgctgggtgt ttcagttcct 240  
gcccttgaca aagatgtatt gtgggaattt cagccaacga agctaggtgt tggagatgtc 300  
atcacatgtg g 311

<210> 11458  
<211> 342  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-026-Q1-K1-G7  
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catcccctgt acttcagaac ttactctta attatggtgt tcggcgatg gaccttggcg 180  
gcaaggccct taaaaactat ctcaaggagc tcgtctcata ccgttccctt aatgttatgg 240  
atgaaactct cctcattgat gatgcaaagg aaaagctatg ttttgtctcg cttgatgtcc 300  
ctggtggtct acacgttgcc aggttatcat ttaaggataa cc 342

<210> 11459

<211> 303  
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 ggagaggatt gcgtccgctt gctgggacct ggtccggaag taccactta caaggaaggg 180  
 tgaggactac gccgacaccg acaccgactt cgacgccgtc acggacgagc tgttgtggtc 240  
 gcgggactct taccctgac gcggggcgcc acttgtcctt caccatcctg cagggcaacg 300  
 acg 303

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 <211> 299  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-H1  
  
 <400> 11460  
  
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 ttctcccttt tctaagcgaa tcccccgagg ttgttgacca tgaacttggt ggaaatgcta 180  
 acggttgaca caatggagtg acaaatgcgg aaatgcctaa agcatcaagg gctgcaccat 240  
 gtaaattgcta gccaggcagg ttgcaacaaa aaaaaaaaaac accaggaagt tctgtgggc 299

<210> 11461  
 <211> 404  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-H10  
  
 <400> 11461  
  
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 cagcgggcta attgtgatga actgcgagca ctacgcagtt tgctgatgag caatagaatt 120

ctgggcgaca attctaggca gcaggcttgc caaatccttg atgaggagat tgcgaagcaa 180  
 tggcactgac cagcgtaaat acaggatggt gtactaacca attgtttggc atgattttgt 240  
 tttgacggga taaatcagtt ttaaggcttg cttcttccgt tgcccttggtg cccattcttt 300  
 tcattcttgt gaccataccc aattctttat tgcaagtggg gtcaacaagc atgaggctac 360  
 agctgcatca cctgcaagga agtcaaaagt aagaggcaca tgca 404

<210> 11462  
 <211> 304  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-H11

<400> 11462

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 tctacgcaag cctacttgct acaacaagca attgcggcaa ccatgttaca acaaccaatt 180  
 gcccaatagc aacaacaatc cttggcacat ctaacaatac aaaccatcgc aacgcaacat 240  
 caacaacagc tcctaccagc actgagccac ctcaccatgg tgaaccctgt cggctacttg 300  
 caac 304

<210> 11463  
 <211> 301  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-H2

<400> 11463

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 gggcggctct gtgtccgcc aagaggcgga cgtgtacgtg gccagctagt ttaagagcag 180  
 gcgcaagcgc ggcgaggccg aggatggtga aggcctgtgc ctgcctggtt caagctagag 240  
 aatcccgtcg gtggaggcgc aggcgctcac gggtgggtgc ccgcctctgc gccgcacgag 300  
 c 301

<210> 11464  
 <211> 330  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-H5  
  
 <400> 11464  
  
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 acaaactgct gcctgtatgg actcgtgcga ttcagggtga accatcagat tgtctagtgt 120  
 cttctttgta ataaatttat ctgttcttgg tactttgtct atggttgaat cggaacccat 180  
 tttccgtttg cctagattct taatttctgg tgctgtatcc agctgaaact agtagatcta 240  
 tgatcttgtg gctgcagcat gttcttgtca cttttatctg gtctccgttg gttcggttca 300  
 caggtttgtg gctgtaaaag gctgtgctta 330

<210> 11465  
 <211> 303  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-H7  
  
 <400> 11465  
  
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 agtcgtgaaa gtcctatcac aggcgtctgc gaccacaaag gctgaagcaa gaccctggtt 120  
 cacaaggcca aagatctcaa actcgaaacc taaggcttca agggcaaagg ttgcgcgagc 180  
 gcaagaaacc ccagctgaag cccctccttc agaacctgct gctccagaag atttcacggt 240  
 tgaacatggc gttggagacg ccacaggtcc tgatctgacc gcgcaattgg ttgcttcgaa 300  
 cga 303

<210> 11466  
 <211> 331  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-H8  
  
 <400> 11466

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tgcgcggggc tgcagggtt gtacggcgct ggcgccggcc tgacgacgat gatgggcgcc 180  
ggcgggctgt acccctacgc ggagtacctg aggcagccgc agtgcagccc gctggcgccg 240  
gcgcctact acgcccgggtg tgggcagacg agcgccatgt accagccgct ccggcaacag 300  
tgctgccagc agcagatgag ggttatggac g 331

<210> 11467

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-H9

<400> 11467

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atattatccc tgcttgcgct acttgcgctt tttgcgaaca caacatatgc gttcattatt 120  
acacaatgct cacttacttc tagttccatt attccacagt tctcccacc agttacttca 180  
atgaccttct aacacccaac tgtgcaagcc tataatctac aacaagcgat tgcgacgaac 240  
gtcttacaac aaccaattgt ccaatttcaa caacaatcct tatcacatct aacaatacaa 300  
accatcacia ctcaacatca acaac 325

<210> 11468

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-A10

<400> 11468

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gctgcaggcg atgaagaagg acaccctaga acgccccgg gagcccaact tggatctgaa 120  
ggcgtacctg gccaaactcg acctgcaccc ggtgttcaag ggggacgaag gcgacgacag 180  
gtactcgggtg atggacgacg atgggtggat ggaggaggag gtgatcgtgc cgacgaagcg 240  
gcattcgagg aggacgacgc ccgcgacag caagcatgaa gggtcggact cgctctctgt 300

gctcgagagt tctctacagc ggtagtcaca gtaggagctt agcctgtaca gaatggatga 360  
aatgatcac ggcctgctc cattgctttt gctttggttg ttggttggtc atgt 414

<210> 11469

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-A11

<400> 11469

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gaagagagag gagaagagga agaagctgga agaggagcgg aggctcaagg aggaagagaa 180  
gaagaacaag gctgcggctg ccagtggaaa acctcagaag gcattctgtg ctgacgatga 240  
tgacatggat ccactcaat actatgagaa taggctcaag gctcttgatt cactgaaggc 300  
cacaggtgta aaccctatc ccataagtt cccggttggc atttctgtac ccgaatacat 360  
tgagaagtac aggaccttga gcgaggggga gaagcttaca gatgtggcag agtggttagc 420  
tgggaggatc atg 433

<210> 11470

<211> 353

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-027-Q1-K1-A12

<400> 11470

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gtcacctacc caccgagcac gcnnccgccg caaggaaccg tnnccaccgc atnnggatgt 120  
nnngtctacg cgctttcaaa cgacaagggg gccgcaccct tctttacggc tnntcggcgg 180  
gctaaggggt cgcttcttcc aatcnntggt ggcnganacc tgggcatgtn ngttgtcngc 240  
nncggtnnng ttgggtgttg tgggtggcct ttaatttnaa gtctaagtcc cccgttctct 300  
cttaattcgt cgcttgtngn nttctggtgg tgggtcttgg gtagtcccaa ttt 353

<210> 11471  
<211> 302  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-A2

<400> 11471

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gttcaagact caaaccagaa tttattgagg cattgggtttg ttgtaaagat tggaagattg 180  
cttcggagaa agatttgag attgaaatta aaaccttaag tgaacctatg aatgacgttg 240  
acttgagga tgctgctgca attggaactt gagaagttaa agttcaagtt accatggatg 300  
at 302

<210> 11472  
<211> 318  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-G5

<400> 11472

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gacgccagcg gagccgatag caaggggaag aagggtgctg cggggcgcaa ggcaggcggc 120  
cccaggaaga agtcggtgac gcggtccgtc aaggccgggc tgcagttccc cgtcggccgg 180  
atcgggcgct acctgaagaa gggccggtac gcgcagcgcg tgggcaactgg cgcctccgtc 240  
tacctcgccg ccgtcctgga gtacctcgcc gccgaggttc tggagttggc agggaaacgcg 300  
gcgaaagaca acaataag 318

<210> 11473  
<211> 331  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-E7

<400> 11473

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ccgtccttat gtccttagct ctttctgcat gtgttgctaa cgcgacaatt ttccctcaat 120  
 gtcacaagc tcctatagct tcccttcttc ccccatacct tccatcaatg atagcttcag 180  
 tatgtgaaaa ccagctctt cagccctata ggctccaaca agcaatcgca gcaagcaaca 240  
 tacctttatc acccttggtg tttcaacaat cgccagccct atctttggtg cagtcattgg 300  
 taaaaccat cagaacacag taactgcagc a 331

<210> 11474

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-E9

<400> 11474

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 cttccattct acttcatagg ggacctggtg taccacctac atgcaattca ctgacacgga 120  
 tccttataac ggcgttactt gtaaaacacc tatgcttccc aactaaattg gcttgcagca 180  
 cataccaata cttcctccaa gcctaataca caaataccg aacacatcaa ctttaacaac 240  
 attctcgcat cctaaatggc gaattccacg cgctatgtct tctt 284

<210> 11475

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-F11

<400> 11475

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 agcagaccag acgagacctc tcgcgttccg tctcctccc tgcccctgct gccgttcccc 120  
 ttcttctca gtttccccgc ccgctgctgc cctccgtccg cgtccagatc ccgccaccaa 180  
 ccgatccggc gccctccagc atggcggggg cgggggagaa ggcggcgagg gccctggctc 240  
 tggcgctcgt gctcgcgctc gcgggggcca actcggaggc cgacgcgctc tcggcgctgc 300  
 gccggagcct cagggacccc ggcggcgttc tgcagagctg ggacccacg ctcgtaacc 360  
 cctgcacctg gttccacgtc acctgcgacc gcgacaaccg cgtcaccgc ctagatcttg 420

gtaatttgaa cttatctggt

440

<210> 11476

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-F2

<400> 11476

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atctgcttgt ctacctaagg gatcctcaac ggcctatatg caaggttggt gatttgggat 120

tatcaaaggc caaatgccag aactaatct ctggcggagt aagaggaaca cttccttga 180

tggcccctga gttgttgaat ggcagcagca gccttgcttc ggaaaagggt gacgtcttct 240

cgtttggcat tgtgatgtgg gagctactta cagggaaga gccttacgcc gagctgcact 300

<210> 11477

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-F4

<400> 11477

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gcacacgctg cccctccctt ccgtcctccg ctccaacttc tcggtcgtcg acggccccgc 180

cagctccgcc gcgggtaacc ccgatgagat cgccaagctc tcccccaacc tgttcggcca 240

gccctcggcg tcgctgggtgc cgtcggccga gccgcggcg accaggccgc taaaggt 297

<210> 11478

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-F5

<400> 11478

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atggcgacca agatatgttc cctccttatg ctcttgctc tttctgcatg tgttgctaac 120  
gcgacaatth tccctcaatg ctcaacaagt cctatagctt cctttcttcc cccatacctt 180  
ccatcaatga tagcttcagt atgtgaaaac ccagctcttc agccctatag gctccaacaa 240  
gcaatcgag caagcaacat acctttatca ccttggtgt ttcaacaatc gccagcccta 300  
tctt 304

<210> 11479

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-F7

<400> 11479

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cccctgtttc tactcatttt ttggcccttg ataatgtcca cgagtatgta atagggacta 180  
atgaatcaaa cgttgtaaa taaacatttc attccgtttt gctaaaaaaaa aaaaaaaaaa 240  
agatcactgc aagaatgaac attttaccta cgtacatagc atgtagaccg atcaccagga 300  
tc 302

<210> 11480

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-F8

<400> 11480

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caggccaaca ggggtcagga tcatcagcca tggccgtgga cgatgagcca cagccgccac 180  
aaccctttga gtacacctcg tgagcgaccg agcgtcacct tttcttattc gttctttttt 240  
tttgactttt tgagtatgta gtgtgcggaa atttgttgtt ggctggaaga cctttttag 300  
aaa 303

<210> 11481  
 <211> 401  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-F9  
  
 <400> 11481  
  
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 cccggctgga ggccgccgcg gacccggagg agcgagagcg gaaggcggcg ttcgagcggc 180  
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 ccctcgtcaa caccagagtc tccctcctca acattctcag ccagtccttc tgattcccga 300  
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 gatgtagata gaaatgtgtg cgccaatgca atatagcaat g 401

<210> 11482  
 <211> 381  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-G11  
  
 <400> 11482  
  
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 atggagtcca agacggcgcg cggcccgcg acggggcggt ggacccgat gcgcgagtc 180  
 tggggctccg tctggcgcgt ggacaccaac caccgatgc aggcgccctt ctccatccgc 240  
 atccgcaacg agtccggcaa gacgctcgtc gtcaacaacg tcatcccgcc caactggcgc 300  
 cccaacacct tctaccgctc ctctgtccag tacagctagc tgatcgggat gcctgccttg 360  
 ccctgccttg cccgcaattg g 381

<210> 11483  
 <211> 284  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-E6

<400> 11483

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gagagtcaaa tattagaggg catgagcgct aactgcaacc atgatatttg actctcaaatt 120  
aatttctgta ctgctgctcg gcagcgtgca tgcaaaactga gcatttttcca gtcagcctct 180  
gcgtgtgtgc gggctaattc aactatgaaa ttcatctgaa tttctttcca ctttcacttt 240  
ggatatcttca gtgaatatgt aaatctttga tgttcttctg cttt 284

<210> 11484

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-G3

<400> 11484

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aatggcgctc ttgtgtatct gcaagcaccg agcgcctcatg ctctgagcag gcgggtctgct 120  
ctcgaagctc tcgactgccg gcgccagcgc cgggacctac tgctgccag gacggggccat 180  
gccgtacatc ccgattgcgc gctgcccgcgt gtgcgtgacc agtcggacct gc 232

<210> 11485

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-G4

<400> 11485

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gacaatcctc aagtcaaaga gattaggtgt atagccatcc ctccacagca tggaacacac 180  
cagatgggtga ctcttcacgc aaatcttcct gagcacgagt tccttaatga tctagaaccc 240  
ttgggatgga tgcatacaca gccaaatgaa gctccacagc tatcgccaca agacctgaca 300

<210> 11486  
 <211> 302  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-C8  
  
 <400> 11486  
  
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 tggaaggaaa acagtttacc ctgatctttc atgttacaaa atggatgttt tggttatctga 120  
 cattcttggg cctattggca tctcccagga cgagaaacag gttgtctgtc ttttgaataa 180  
 aatgcaactg caagctgaaa gtcactcctt gaaaggggag gctcgcattt cagtgtctgt 240  
 tcctccaaca agaagtgata ttctgcatgc ccgtgatttg tcagaggacg ttgctattgc 300  
 tt 302

<210> 11487  
 <211> 447  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-C9  
  
 <400> 11487  
  
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 accgcgacca tcataccgca atgctcacia gctactatag cttcccttct tccccgtac 180  
 ctcttaccag tgatggcttc agtatgcgaa aaccaattc ttcaacccta caagatccaa 240  
 catgcaattg catcatgcat cttaccttta tcacccttga tcctgcaaca atcatcacc 300  
 ctattacaac agttaccttt ggtgcattta ttggcacaca acatcatggc acaacaactc 360  
 gagctagcac accttgctgc ctactcttag caacaacagt tacctttggg gcatttgatc 420  
 gcacaaaaca ttaaggcaca acaacta 447

<210> 11488  
 <211> 304  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-D1

<400> 11488

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cccattggaa agcgaagcct cccactgaag caaacctgc cattcttgat gagtttgctc 180  
atcctttccc tgagaatcac tgctatacta acagagcttt cgtggattgt acaccagata 240  
caagcgtcgc ctctcactat tatgattgac taactaaagc catacatgtc attactgcaa 300  
acca 304

<210> 11489

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-D12

<400> 11489

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ccgcgcagcc atggcggaac agactgagaa ggctttcctc aagcagccta aggtgttcct 120  
cagctcaaag aaatctggca agggtaagaa gccaggcaag ggtggcaatc gattttggaa 180  
gagcattggc cttggtttca agactcccag ggaagcaatt gaagggacct acattgacaa 240  
gaaatgtcca ttactggaa ccgtttctat cagaggcaga attattgctg gaacatgcca 300  
cagtgctaag atgaacagaa ccatcattgt tcgcaggaaac tatctccact ttgttaagaa 360  
ataccagagg tatgaaaaga ggcactccaa cattccagct cacatctccc catgcttccg 420  
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<210> 11490

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-D3

<400> 11490

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gctaccgccg cgtggtgttg ctccgcagcc gacgcgtcc ggggctggtg ggatgacgtc 120

aacgagtcgc cccagtggca ggacgcggcc ttcttctccc tcgccgacgg ctacgccctc 180  
gtctcacgcc gtcgcactga ttcagctcgt caggatccag cgccgggtgc ccgagttcgg 240  
atggaccacg cagaaggtct tacacctcat gaacttactt gtcaacgggg tccgtgctct 300

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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-026-Q1-K1-D5  
  
<400> 11491

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ttgacgtgag tacatgggaa gaggacctcc accaggaaca ggctcgttgtt ttaactgtgg 120  
aatggatggt cactgggcaa gggactgcaa ggctggtgac tggaagaaca aatgctaccg 180  
ctgtggtgaa tcgggccata tagagagaaa ttgccagaac agtccaagga atctcaggcg 240  
tgataaaagc tattcacggt ctccatcccc acgtggtgga cgtggccgca gccggagcta 300  
cagcagaagc cggatctata gccgttccag atcccca 337

<210> 11492  
<211> 302  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-026-Q1-K1-D6  
  
<400> 11492

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tgaaccctgt cgcctgcttg caacagcagt tgcttgcata caaccactt gctctggcaa 120  
acatagttgc ataccaacaa caacaacaat tgcaacagtt tctaccagcg ctcagtcaac 180  
tagccatggt gaaccctgcc gcctacctac aacagcaaca actgatttca tctagccctc 240  
tcgctgtggt taatgcacct acatacctgc aacaacagtt gctgcaacag attgtaccag 300  
ct 302

<210> 11493  
<211> 307



<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-D7  
  
 <400> 11493  
  
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 aaagccaaga agaaatctgg tgcagctgac actgatgagc cctcagaatc ggatgccaaag 120  
 tctgacgaag ccatggaagc cccagcggaa caagaagtgg cccagcttc caccacggta 180  
 aagaaagaac agaaggagag tgcccgttac aggaatgtgg tgagccggag caaggccccg 240  
 ctaccaagc cgatcctgaa gaggaagaag gcgcagtcct actggtcatt ggctggccca 300  
 gctgcca 307

<210> 11494  
 <211> 302  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-D8  
  
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 ttgccgttct accagcacgc tgcgcctaac gctggcacc ctttacaact gcaacaattg 180  
 ctgccattca accaacttgc ttgacaaac ccagcagcgt tctaccaaca acccatcatt 240  
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 at 302

<210> 11495  
 <211> 314  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-E1  
  
 <400> 11495  
  
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 gtcgtgggtc cggctaactg cactggacgg gactgcaccc aatggccacc acggcgaccg 120

aggccgacaa ggctccaccg cctcatgacc agcacgccac cggcaacggc cacggctagc 180  
agaacacgcg ccaactgcgcg gtcggccaca acagcctgct caagagcgac gacctgtacc 240  
aggtaaacaa gctgagcgca atgagtggat gaatctgacc cgcattctcag cctctgaccg 300  
ccgggcaaga atga 314

<210> 11496  
<211> 435  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 11496

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ccgatggatc gctctgcgcc tccggcggga aggacgggtgt tactctgctg tgggatttgg 120  
ctgaggggaa gaggctgtac tcgctggatg cgggctccat catccactcc ctctgcttct 180  
cgcccaaccg ctactggctc tgcgctgcga cccaggactc tgtaagatc tgggaccttg 240  
agtcgaagca cgtcgtgcag gacctcaagc ctgacatcca gatctccaag aaccagatcc 300  
tgtactgcac aagcttgagc tggagcgccg atggaagcac cctctacact ggctacaccg 360  
atgggtctat cagggctctg aagatctctg gatatggcta cgcangctag atgtcgaaat 420  
ccagtccagg gtcta 435

<210> 11497  
<211> 295  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-E2

<400> 11497

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cacgccgtga tgccgctgtg tgctcgctgt ttttgacag ccccgaaat cgacgtcggt 120  
caccctgag agaaccctgt gttttgcgag aagaaggaa gccgctcgac gctcgctgat 180  
gttcgtagcg atgcacaaat cggaatctcc atcgtcctca caaacatcga ttgggtttgt 240

ttatggaccg ataggtgacg atcgtgcaag cgatgtggtg ccaaccacaa gatgc 295

<210> 11498

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-C7

<400> 11498

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ggtgtttcaa ctgtggagtt gatggtcact gggcaagaga ctgtaaagct ggtgactgga 120

aaaacaaatg ctaccgttgt ggagaaaggg gccatataga aagaaattgc cagaacagtc 180

ctaggagtct caggcgagag agaagttact cacgggtccc atctccccgc cgtggacggg 240

gccgcagtcg aagctatagc aggagcagga gccggagtcg gagctatagt cgatcaagat 300

ccctgtgtag atcttctatt ggaggtcgtc gtgaccgtta ctgttggttag atcaaggagt 360

cctagctata gctggaagcc ctatgcgac 390

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<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-E5

<400> 11499

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tatgtctcctt ggtctttctg caagtgtctg taccgcaacc attttccac aatgtcaca 120

agctectata gcttcctttc ttccccata cctctcacca gcggtgtctt cagtatgtga 180

aaacccaatt cttcaaccct acaggatcca acaggcaatc gcagcaggca tcttaccttt 240

atcaccttg ttctccaac aaccgtcagc cctattacag cagttacctt tgggtgcattt 300

gttggcacia aacatgaagg cacaacaact acaacaactt g 341

<210> 11500

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-A7

<400> 11500

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cgaggaggaa gacaaccggc gacgcggggg gaacatgggg aagacgccgg tgcggatgaa 120  
ggcggtcgtg tacgcgtgtg cggccttcca gcagaaagta atgccggggc tgtggaagga 180  
catcaccacc aagatccaac acaaggtcac cgagaactgg atcttcggca cgcttcttct 240  
taaccccgtc gtcggcacct accaataccc catgtggtac aaggagccag aaaagctttt 300  
ccac 304

<210> 11501

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-A8

<400> 11501

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tatatctagc ttgaacgatt gtcaggaccg atggcgatga cagattccaa gctgggttaga 180  
tcaccttgtc gggcttaggc ggaatgtata tttgctgctc atgatattat agtatgtaag 240  
accataaacg gtgagttggt gatgcgctat atatcttgga ataaagctca acttcttcca 300  
aaa 303

<210> 11502

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-A9

<400> 11502

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aaccctgctt gaggctctag accagatcac cgagcataat aggcctttac acaaacctct 180

gcttctgcc a cttcagcatg cacacatgat tgatgccatt agaacagtac caacatgacc 240  
cagaggagac tcataacatg aatcctggta tggaaactcac ctaacgtgca actgagctct 300  
atacttacga ggattatgcc tatatgcacc aaagagcact tcaggaaagc ttttaccatg 360  
ac 362

<210> 11503  
<211> 403  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-B12

<400> 11503

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cgccggatcg tocaagacct acccagcaca tgctggcacc gtccgtatga actgcttcat 120  
cgtcatcaag aaccgacct gcacggctgt ggaggtttct accttaaaga ctgataagca 180  
tggatcatgcc aaatgctact ttgtagccat agatatatcc aacggtaaaa agttcgaata 240  
tattggctct tcatgacaca tactgcatat tacagctgtg aaccgtactg agtatcacat 300  
gattgatata tcagactatg gattagcgag ctttcttact tcagatggta acactaatga 360  
tgatcttaaa ctcccaactg attatactct tgtagcccag atc 403

<210> 11504  
<211> 297  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-B2

<400> 11504

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attacaatct agagcagtct gtcgatgacc tatgtggcgt caatgaatgg gatcctctcc 120  
ttgcagagct ggaagagatg ggatttgatg acacagagat gaacaaggag ctgcttgcca 180  
agaatgaggg aagcatcaag cgagctgtga tggagctcat tgccaggag aagaaggaca 240  
agtgaagatc gtgtgctatc taagtatata ttcgtaaata atgagacggc tgtgccca 297

<210> 11505

<211> 304  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-B6  
  
 <400> 11505  
  
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 aatcgaaggc cgacgctggg gcgtccaaga cctacccgca gcaggctggc accgtccgta 180  
 agaacggctt catcgtcac aagaaccgtc cctgcaaggt tgtggaggtt tctacctcca 240  
 agactggtaa gcatggccac gccaaatgcc actttgtcgc catagacata ttcaatggga 300  
 aaaa 304

<210> 11506  
 <211> 305  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-B7  
  
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 cagacgctaa gaagcttaag atttggttgg gaaagaacaa agtagaagaa gatgaaagtg 180  
 atagcgatag tgacagtgc atggatgatg aggacagtga agatcaggag agcgcagatg 240  
 caaaatctct cgtagttgat gaaggcaatt gctcaaattg atccataaaa aatgagaaac 300  
 ttgat 305

<210> 11507  
 <211> 427  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-B9  
  
 <400> 11507  
  
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ttcgggtgcc gacaattgta tccgaaagat ttggctacct tacgctcctt ggtctatgtg 120  
cacatgctgc taccgcaacc atttttccac aatgcttaca agctactata gcttcccttc 180  
ttgcaacata catctcacca gccctatatg caactgcaga caacccaatt aggcaacatt 240  
cctggatcac aacttgcagt ctcaacaagc atcttaccta tatcaccctc agtcacgcga 300  
acacacgcaa gacgtatcac aagatgtacc tactgtcgct acctgggaac aaccattag 360  
gtctcaccaa ctactataac tagtgttagc aacacttgct gcatactttc aaccaacatg 420  
agtacac 427

<210> 11508  
<211> 297  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-C1

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gctgccagcg ccagcgccgg gacctcctgc gtgccggggg gggccatccc gcacaacccg 180  
ctcccagact ggcgctggta cgtgaccagc cggacctgcg gcacggggc gcgcctcccg 240  
tggccggagc tgaagaggag atgctgccgg gagctggcgg acatcccggc gtactgc 297

<210> 11509  
<211> 167  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-C10

<400> 11509  
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cattctccac attcttcaaa tcttaaacac ccactttcaa ctttatctac aacacaattc 120  
actactttta cacaccaatt ccattcaaca acatctttct acattac 167

<210> 11510  
<211> 369  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-C11

<400> 11510

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gacacattca aatctcctgc gtgtgcggta acttccacga ttagtgatca acatcattct 120

acacaaaccc tggatcaatc cctatatgga cccctaccat acacccttct acaatatacc 180

tgaacggcaa cgctaatacag ttgctgcaag agaaggctta aagcttactt cttgactact 240

tgtacaggac tccagtacgc attcacatca aacactctgt atcagatgca aagcccatca 300

cgcttaccat taagaacat gactacatat gtgacattaa catactgaaa gagtaccttg 360

gcaaagata 369

<210> 11511

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-A6

<400> 11511

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cttgtcggag gaggcgaggt cgctggggcc caagggatcg gaggcgcaca aagcggcgggt 120

gatcggggac accatcggcg acccgctcaa ggacacctcc ggaccgtccc tcaacatcct 180

catcaagctt atggccgtgg agtcgctcgt cttecgcccc ttcttcgccg cgcacggtgg 240

catcatcttc gaccacctct gatcaatgca tgctgctgac gttccatggc aaaggcgccg 300

gc 302

<210> 11512

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-C5

<400> 11512

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caggaacagt tgttgccgtt ctacctgcac gctgcgccta acgttggcac cctcttacia 120  
 ctgcaacaat tgctgccatt caaccaacat gctttgacaa acccaacagc gttctaccaa 180  
 caacccatca ttggtggtgc cctcttttag attgcttatg agttatagtt caataataaa 240  
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<210> 11513  
 <211> 304  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-C6

<400> 11513

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 cggcgggcca aggaagaagt cgggtgctgag gtccgtgaag gccggtctcc agttccccgt 180  
 cggccgcata gggcgctact tgaagaaggg ccgctacgag cagcgtgtcg gcaccggcgc 240  
 ccccgctctac ctgcgcgctg tctcgaata cctcgccgct gaggttcttg agctcgccgg 300  
 taat 304

<210> 11514  
 <211> 437  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-H1

<400> 11514

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 accagggctg ccaaggccat caatgagaag acctgcaatg ctctcctctt gaaggtgaac 180  
 caaatcgggt ctgtgaccga gagtatcgaa gctgtcagga tgtccaagcg cgccggatgg 240  
 ggagtgatgg caagccacag gagtggcgag acagaggaca ccttcattgc tgacctctca 300  
 gttggcctgt ctacgggcca aatcaagacg ggagctcctt gccggtctga gcgcctggcc 360  
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gcaaagttca gggcacc

437

<210> 11515

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-H12

<400> 11515

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tgtccaaccc gatgcgggag atcaaggtgc agaagctcgt cctcaatata tccgtcggcg 180

agagcggcga ccgtctcacc cgcgccgcaa aggtgctcga gcagctcagc ggccagaccc 240

ccgtcttctc caaggcgagg tacacggtgc ggctcgttcgg catccggcgt aacgagaaga 300

tcgcctgcta cgtcacggcg aggggcgaga aggccatgca gctgcttgag agcggcctca 360

aggtcaagga gtacgagct 379

<210> 11516

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-H2

<400> 11516

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tcgtttcttca tgccgatgct atccacaggg gtggtggcca ggtcattcca actgccagga 120

gggtcattta tgcttctcag ctcacagcca agccgaggct gctggaacca gtttacctgg 180

tggagatcca gggcccagaa aatgcacttg gtggcatata cgggtgttctg aaccagaaga 240

gaggacatgt attcgaggag atgcaaaggc ctggtacccc gctctacaac atcaaggctt 300

tcctccctgt catcgagtcc tttgggttct caagccagct gagggctgca acctctgggtc 360

aggcggtccc ccagtgtgtg tttgaccact gggacatgat gggctcggat cctttggagg 420

ctggctccca ggct 434

<210> 11517

<211> 400  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-H3

<400> 11517

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gggtcaatca tgcttctaca gtcacaaact caattgcagc tgctggatcc agttcaccta 180  
gctctagatc catatcctac agaaactgca actactacca tatcacgcgt ttctaccgaa 240  
accatacatg catcttgaca cacaccaggc gctgtacctc tactctacaa gctctacgtt 300  
acgctggctg tcttttacta ctgcgacaat tgctgccatt taaccaactt gatctgacat 360  
aacgcgtagt gttatagcga caacgaataa tgggacatga 400

<210> 11518  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-H4

<400> 11518

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accataccac taatttttatt ataccactag aaccagcttc tcaactagctt ctccaccagg 180  
gtttgacttt gtaacatagg agatacagtg tgctcttctg gaacttcac cccaacatca 240  
tctcactga tcttgatgag tacttggcac ttcagtgcg gcttcaaata caacattatc 300  
tcttgattg tgactctggt ttggggctcg ggctatatca gtttgcatat tatctggagc 360  
cttctgaagc aactctttta ttatagcatc agaatgtaag gtttctatct ctatgggtag 420  
atcactgact gacgc 435

<210> 11519  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-H5

<400> 11519

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ctggcaaacc tttctcccta ctctcagcaa caacaatttc ttccattcaa ccaactgtct 180  
aactgaacc ctgctgctta tttgcagcaa caactattac cattcagcca gctagctact 240  
gcctactctc agcaacaaca actttttcca tttaaccaat tggccgcact gaaccccgt 300  
gcttatttgc agcagcaaat actactacca tttagccagc tagctgcagc aaaccgtgct 360  
tgcttttga cacagcaaca gttgtgcct ttctaccagc agtttgcggc taaccccgca 420  
accctcttac aacta 435

<210> 11520

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-H8

<400> 11520

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gcaatggaat tgcaggccgt ctattaattt gaactcatag cagtaccaca caaccagtga 120  
gaccatacca ctaattttat tataccaacta caaccaactt ctactagct tctcaccaca 180  
ggtttgactt tgtaacatat gagatacagt gtgctcttct ggaacttcat cccaacatc 240  
atcctcactg atcttggtca atacttggca cttcactgac agattcaa atacaacattat 300  
ctactggatt gtgactctgt tatagaggtc gtggctatat caagttgcat attaacttga 360  
gccttt 366

<210> 11521

<211> 190

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-026-Q1-K1-A1

<400> 11521

gaggggggag ccacgcgunc gggagaagac gcggggggac cngagagcag acgcaccagg 60  
caccagaagg gngaacgggg ggaacngcga ggcggcgaga acacaaaaag ccgaacaaaag 120  
cggaggcgca cgaaacaagc ancagcagng gcgacgcaaa cgacccggac aggaagaccc 180  
accgcagaag 190

<210> 11522  
<211> 123  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-026-Q1-K1-A10  
<400> 11522

cgcacaagta aggtgtatcg ctctccccgc ccgcaagcca gtggcgctcg agccgcgtcg 60  
ctcgtgctcc ctacgacct ctacaactca gcgatccgc cgactcgcct atcgatggcg 120  
tca 123

<210> 11523  
<211> 386  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-026-Q1-K1-A11  
<400> 11523

tccgaattcc cgactggagc cagcgctacg cgtgctgcc gctgttacac gaggaggttt 60  
ccttttcaca tccgaacact ccttagtgtg ctgggctcct cttctgcggg gccacagcaa 120  
tccgcagata ttagctgact cgtgaccgac tgctatagct acccttcttc cgccatgcct 180  
gctatcaaat gtagttatag tccgacgaag cacaccatgt aagacgctat aaggttcaac 240  
accattgtcc gacgggcaac tttcacacat taccatttc tggtaaaaag aagtcggaac 300  
gaatcatgct gcactagatt gtacaaacca agagctcaca ccatgttgta caactactac 360  
taacgtagag ccatctactt tgacca 386

<210> 11524  
<211> 437  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-A12

<400> 11524

caagtcgcac cgcacgtacg gtctcaggcg catcggcctc gccgctgcac agcgccggag 60  
acgatacgac ggagggtacg ggatgacggg cttccacttc ctcaactgcg ccttcctcac 120  
cttcggggcct cagctcgtct actactccgc cagccccctg tcagagtatg atacaatcgg 180  
cactttctata aaagcagctg ctgtttatct tggaactgcg cttgtaaagc ttgtttgctt 240  
ggcaacattg ctcaaagtac ctgagaatga tagctttgac ccctatcagg agttaatgaa 300  
agttttttatt ggattcatag atgtagctgg actgtatttt gctttgacct agctgaccca 360  
cagaaacatc tctcagaatc ataagttcca ggctgttggt cttgggtggg cttttgctga 420  
ttcagttttg caccgac 437

<210> 11525

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-A2

<400> 11525

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tgaaagctgc ataacacgcc tctgccacca cctaggatgc agcaagatcc tctgccacat 120  
ggccaatgat atcaaaatcg aaacctactg cttcaaggcc aaatgttgca cgagcgccag 180  
acacctcacc tgatgccgct gcttcataac ctgctgggtcc tgaagattcc acggctgcac 240  
atggtgttcg aaactccaca ggtcctgacg tcaccagcca attgacagct tcgaac 296

<210> 11526

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-A4

<400> 11526

cccacgcgtc cgcccacgcg tccgaccagg cgagccaaca agcaagcaaa agtaaaccggg 60  
gcgaggagct gtagagacgc cggcgacgcg aagcaaccgc ccgatcggag ccgaggctga 120

gcaggagggga gccggagatg gtgggtctcg tcggcggcag cacggcgcg gaggagcacg 180  
tcgtcgccaa cgccggaggg gaggcagagt acgtgcgccg catgcaccgc cacgcgccga 240  
ccgagcacca gtgcacctcc accctcgtca agcacatcaa ggcgcccgtc cacctcgtgt 300  
g 301

<210> 11527  
<211> 307  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-026-Q1-K1-A5  
<400> 11527

ggagagtctg ttgggggatc tgatatcata ctcaccatgc accagaaggg tgaactgagg 60  
gaactgcttg gcgatatagc aaaaaagcc gaacaaagtg gttcttcatg aaacaagcat 120  
cagtatttgc gatgcaaact tcccggactg gatgttcctt ctcagaagat tttagggtgat 180  
cttgcaattgt tgccctgtgg cttcggattt gaatacgttc tctgttttgt tctgttctgt 240  
tcttgccagt tgtgatggaa gatccactca aggccgaatt gcacgagtaa ccaaagttat 300  
agttctc 307

<210> 11528  
<211> 396  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-025-Q1-K1-G9  
<400> 11528

gaccacgcg tacgatgaaa tcttcaaaga tctcgtgcg ctagtccatg atcaaggagc 60  
aatgatcgat gagatggatt cccatataga gaacgccgtt gtagcgactt ctcatgctaa 120  
aggccagctt tcaaaggctg ctaaaactca gaagtcgaac tcttctctga tatgctcgtt 180  
gctcgatatt ttcagagtgg tcttgctcat agtgataata gtacttgcag cctaaaagct 240  
tggaaggaca cctgggggtc ccaaactctga tcgagagctt attgcgacaa attccttcat 300  
aagctatfff tgctgtgctg ctaagaatga ttcttggtac ccaagcgggtg attggcgctc 360  
tgcttgtggg gtggcagcat atgtcgtgat gatcaa 396

<210> 11529  
 <211> 310  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-F5

<400> 11529

gccacagctt gcagatggaa tggcagaagc tgttgcaaac attgctgctt tcttgagaga 60  
 acaacatttg ttgccatttt acccacaggt tgtgggaaac attaatgcct tcttgcaaca 120  
 gcaacaattg ctaccattct acccacagaa tgcggcaaac attgttgctt tcttacaaca 180  
 acaacaattg ctgccattta gccaacatgc tttgacgaat cctaccacct tattgcaacc 240  
 gccaccatc ggtggtgcca tcttctagat tttttatgat ttatactgta ataataaagt 300  
 tctcatgctg 310

<210> 11530  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-F6

<400> 11530

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 ctttatcacc ctgtttcttc caacaatcat cagccctatt acagcagtta cttttggtgc 120  
 atttattggc acaaaacatc agggcacaac aactacaaca acttgtgcta gcaaacttg 180  
 ctgcctactc tcagcaacag cagtttcttc cattcaacca actagctgca ttgaactctg 240  
 ctgcttattt gcaacaacaa ctaccattca gccagctagc tgctgcctac cccaacaat 300  
 ttcttccatt caaccaactg gcatcattga actctctgct ttatttacag cagcaacaac 360  
 tactaccatt cagccagcta gctggtgtga gccctgctgc cttcttgaca catcaacagt 420  
 tattgccgt 429

<210> 11531  
 <211> 436  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3059-025-Q1-K1-F7

<400> 11531

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gtgcctcctt atgctccttg gtctttctgc aagtgtgtct accgcgacca ttttcccgca 120  
atgctcacia gtcctatag ctcccttct tccccgtac ctctcaccag cgggtgtctt 180  
ggatatgtgaa aacccaattc ttcaacccta taggatccaa caggcaatcg cagctggcat 240  
cttaccttta tcaccttgt tcctccaaca atcatcagcc ctattacagc agttaccttt 300  
ggtgcattha ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa 360  
ccttgctgcc tactctcagc aacagcagtt tcttccattc aaccaactag ctgcattgaa 420  
ctctgctgct tatttg 436

<210> 11532

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-F8

<400> 11532

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caagcccacc agcaaagcag atcaagttag gacttcgact ccaagcactg tttaccagga 120  
aaataatccc tctgatagg ttcgatttgg ttgccacata cccttgtagt gcagactaga 180  
ctaatatatg taatcatcat cataataatt gataaaccat ccactatgg ataggttagg 240  
tactccaag cactgtttta ctgtattcat cctccaaaag catgctaag cccgttttagt 300  
tcgatggact aaacattaat gtctctatct tagtctctaa attgtcaaac gatgagacta 360  
aaataaagac taaactgttt aggatatagt cactcaaaag gactaaaaat gactaaacca 420  
tattaattct a 431

<210> 11533

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-F9

<400> 11533

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tccgaccatc tcaacctaaa actggtggga acggcggcca acccgctctag ggcttggccc 120

tggcggtttc tgagcctaga acatctttgc attttggaga gtcttcactt ggagctattg 180

gacaggcttc attcctttca acgagatggc acgttagtct ggtctctcgc ttgtgaggga 240

tcgagccaag accggagcgc tgaaacgtct gactctgagt tcatcgaaaa 290

<210> 11534

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-G1

<400> 11534

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tcgtagttgt cctgatggag aagcatcaac acaacaagat ggagtaattc ttctttttga 120

tgcagaaaagc tcaaacccca ttgcctcctg gtcggtaaag aaggcatcgg gtggcagcat 180

ttctttttgta aaaggtgacg tcccttttga tgcaaagtct gatagttcga gagacaaaga 240

gccaatgttg cttgattatg taaatggttc tcatgaatac gccatctttg atccccggga 300

gagtgaggag gtggtcatta gcaagaacaa gcacaagaag attcaagctg aggaacctgc 360

accaatcggc tacgcttcta ttacggaga gttacaaaa ct 402

<210> 11535

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-G10

<400> 11535

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gcagcaggtc caaaagcagg tctgggacag taggaccccc atttctgtca ctggaagcga 120

gcaacagcag gaagctgcca atgggaagcc caatccgtct gtaccaaacy gtgtccctgc 180

agaggtgaag gcggcgaagg cttctgcaga gaacggcacc gccactccag ctatttccta 240

cgcggaagag gtggcccaag cagcaacaga gaaacctgtg ctgcgcaacg gagtcgctaa 300  
gaccgggttag ctggaccgcc caaccgatgc tccatagcta gccgagagcg acggtcgacg 360  
tccccaagag ctgcaccgaa tcaactgtaca agggaaactg gtga 404

<210> 11536  
<211> 398  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-025-Q1-K1-G11  
<400> 11536

cgggcctgaa gatcgggttc cacgtggtgg agtactcgaa ccccgctctac ttcgcggggc 60  
tgggggagta cgaggacggc gacggcgacg tgggtgcaggt ggacctgatg gaggccaaga 120  
cggcgcgcgg cccgccgacg gggcggtgga cgccgatgcg cgagtcctgg ggctccgtct 180  
ggcgcatgga caccaaccac cgcatgcagg cgcccttctg catccgcata cgcaacgagt 240  
ccggcaagac gctcgtcgac aacaacgtca tcccggacaa ctggcgcccc aacaccttgt 300  
accgctcctt cgtccagtac cgctagctga tcgggatgcc tgccctgccc tgccctgacc 360  
gcaattggag cttgctgacg ctggggctct acttggtc 398

<210> 11537  
<211> 372  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-025-Q1-K1-G12  
<400> 11537

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gggtcgtggg tgagcggatc gagatggcgg cgtcggatgt tgagtaccgc tgcttcgtcg 120  
gcggcctcgc ctggggccacg gacgaccact cctccacaa cgccttcagc acctacggcg 180  
aggctctcga gtccaagatc atcctcgatc gggagacgca gaggtccgcg ggcttcggct 240  
tcgtcacctt cttcacggag gaggcgatgc ggaacgccat cgagggcagc aacggcaagg 300  
agctggacgg tcgcaacatc accgtcaacg agggccagtc ccgctgcggg cgtggaggcg 360  
gcggcagtgg gt 372

<210> 11538  
 <211> 362  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-G2

<400> 11538

gaaacctggc tgcctagtct gagcagcagc agctcgttac atgcaaccaa ctgtctggag 60  
 tgaactctga tgcttatgcy caacatcaac taccattcag tcagctagct gctgcctaca 120  
 cgcagcaata tcttccatac aaccaactgg caccattgaa ctctgatgct gatttacaac 180  
 agcaacaact accaccattc agccagctag ctgatgtgag ccctattgcc tacttgacac 240  
 agcaacattt gttgccggtc tacctgcacg ctgcgcctaa cgctggcacc atcttacaac 300  
 tgctacaatt gctgccattc aaccaacttg ctatgacaaa cccaacagcg ttctaccaac 360  
 aa 362

<210> 11539  
 <211> 377  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-G3

<400> 11539

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 cggatcgaga tggcggcgct ggatgttgag taccgctgct tcgtcggcgg cctcgctgg 180  
 gccacggacg accactccct acacaacgcc ttcagcacct acggggaggt cctcgagtcc 240  
 aagatcatcc tctatcgga gacgcatagg ttcttgcgct tcggcttcgt caccttggtc 300  
 acggtggaag cgatgcggaa cgccatcgac ggcatgaact gcaaggagct ggacggccgg 360  
 aacatcacgg tcaacga 377

<210> 11540  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-G4

<400> 11540

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caactcgtgc tagcaaacct tgctgcctac tctcagcaac agcagttacc tttggtgcat 180  
ttgttggcac aaaacatcag ggcacaacaa ctacaacaac tcgtgctagc aaaccttgct 240  
gcctactctc agcaacaaca gtttctgcca ttcaaccaac tagctgcatt gaactctgct 300  
gcttatttgc agcaacaaca actactacca ttcagccagc tagctgctgc ctacccccgg 360  
caatttcttc cattcaacca actggcagca ttgaactctc atgcttatgt acaacaacaa 420  
caactactac cattca 436

<210> 11541

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-G6

<400> 11541

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atgtcataaa gttcagcagt gatggcaggc ggattctgtt aaccactaaa gctggacgtg 120  
tccatgtgct agattcattc catggcaata gcattgcgtc gtgcaatgtg aagccagtgg 180  
taaccaactc aacactggag gcgtcgttca gccctgatgg aaaccatata atatctggct 240  
ccggtgacgg tagtgtttat gcttggaatg ttaggagtgg aaaggtcgcg cgctggggaa 300  
gcacagacga cgaaccgtcg ctggttaagggt gggctccagg atccttgatg ttcgtgacag 360  
gatcatcaga actgtcatgc tgggttccgg acctgtctaa gctgggatcc tttaccatta 420  
gcaagtaggt gaaa 434

<210> 11542

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-G7

<400> 11542

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aaagatacac ctatgggaag catatcgtgg cacgtgttga gaagcttatt gctgcaggag 120  
aacggcgcac tgggtgcccc tcctcttgct gagatggcaa taaagctata tacaggtcgc 180  
agaataacac ctgtacagac agacagggat agcgaggcct agctttttac cattaccagt 240  
agtcggtaat attgagcgac ggagaggtta aaaaaggctc ccaaatacctt tgatgtaaat 300  
aaaggatagc cgctggaaat aaataaaaag aatgagaaaa gatgaagaga ttttgcttgt 360  
ccttgaggga agagtgtat atttgtgtgg tttatattcc cctcttgaag cagatggata 420  
aatgtttt 428

<210> 11543

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-F4

<400> 11543

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acgcggaggc tgctccccgc gtcctcagg accctagctc cagccggcgc gcgcggcctc 120  
tccaccgaga aggctgttgg cgcagccgcc gtcgtcggca gccacaccgc taagtggatg 180  
caggacacga gcaagaagtc gccaatggaa ctgatcaacg aggtacctcc aatcaaggtt 240  
gatggtcgca ttgccgtctg tgaaggggct tctgaaggty ttggacttgg ccaccaatc 300  
gagtacatct gccttgatct ggaggcacct aatgtgtgca agtactgtgg tctccgttat 360  
gttcaagttc accatcacta aattgagaag ataatgctgt ctaccgctgc agaagctgag 420  
ttgaggagtt tatgtg 436

<210> 11544

<211> 378

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-025-Q1-K1-D9

<400> 11544

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agggaggcct tccattcacc cttctccaat tgacctgaaa gggaaggctt atgagttgct 180

gcgagagaag gcttcaagct tcctccttga cgacttctac aggactccag gaggcattca 240

gttcgaaggc cctgggttcag atgcaaagcc catcacgctg accattgaga accaggacta 300

catgggtgac attgagatac tgaaagagta ccttggcaag gttaggacca tggatgaagc 360

agngtgctcc cgaggagat 378

<210> 11545

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-E1

<400> 11545

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cagcaatttc ttccattcaa ccaactagca gcattgaact ctgctgctta ttacagcag 120

caacaactac taccattcag ccagctagct gatgtgagcc ctgctgcctt cttgacacaa 180

caacagttgt tgccgttcta cctacacgct atgcctaacg ctggcaccct cttacaactg 240

caacaattgc tgccattcaa ccaacttgct ttgacaaacc cagcagtgtt ctaccaacaa 300

cccatcattg gtgggtgccct cttttagatt gcttatgagt tatagttcaa taatgaagtt 360

ttttggatga tgtttgtggc ttcccagaaa taagaaagta cttttct 407

<210> 11546

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-E12

<400> 11546

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ggggaacaga acagcatgaa gatggtcacg gttctcgctg tgtgcctggc tctgtcagct 120

gccagcgccct ctgcaatgca gatgccctgc ccctgcgcgg ggctgcaggg cttgtacggc 180  
gctggcgccg gctgacgac gatgatgggc gccggcgggc tgtacccta cgcggagtac 240  
ctgaggcagc cgcagtgcag cccgctggcg gcggcgccct actacgcgg gtgtgggcag 300  
acgagcgcca tgtaccagcc gctccggcaa cagtgtgcc agcagcagat gaggatgatg 360  
gacgtgcagt ccgtcgcgca gcagctgcag atgatgatgc agcttgagcg t 411

<210> 11547  
<211> 191  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-E2

<400> 11547

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cgacagtttc ataaacaagt tcgtctacta acacctatac actctcttaa ttatatacac 120  
ctaataacat ctactaccat tcattcatat taatttatat gatataatttt tacttataat 180  
aacaacaaca t 191

<210> 11548  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-E3

<400> 11548

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gtgcatacac ttctggagc tacttgtgga gttaacttgc agtgcattgg tgaagcagag 120  
aacattcaac aagagaaata caaagaaacc aatgggagat tgattgctga aaatactatt 180  
tcagagcaga agtgtgaaga tagatctaata tccagtcgtt caaattcatg tgctactccg 240  
gtgactgtgg atcaatgttc tcatttatct aatgagattg ggaaaggatg caactgttta 300  
tctagtgaag tttctgttgg agctgctccc ataacaggca aaactgaatc tagtttgaca 360  
tctgttcatt gcgctaacca agaggatgag aaagcttacg cagccctgt ggacactaaa 420  
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<210> 11549  
 <211> 396  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-E9

<400> 11549

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 tcggcgacgc cgcggtctgt atggcggtgc cccccaccag gccgctgctg cgcacgcgcg 180  
 agccgccaac cgcgccgggc acggcagcgg ggcccgcgcg cgcgcgcgcg cccgggggcg 240  
 gccgaggcgg gaggccgcct gaccggtcgg tggccggcgc cgaggtgatc ctcgccgggt 300  
 tcgctgccgc ggtgatgatc atcgtcttct gctatatcag ggccaccagg agaaacagcg 360  
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<210> 11550  
 <211> 420  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-F10

<400> 11550

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 gaaaactaca tcgggtgcta gtcgcgacgg tgggtgcgtgc cctgttgacg atagggcacg 180  
 cggggcgcgg gcagcttgta agcgttcgat cggccatgta gggcaactat acatctttgg 240  
 caggtctcca actctccatc atcctccgtg ggagagaaga tggtaatgga gtgcgtgtgt 300  
 atgtatgtgt atgccaagc cgcgcgcgcg cggctctggg cgagtcacag tagagatgca 360  
 atatcatgta tccagtatct ttcttacaac acaaacagtg agaaattatt tagagaaaaa 420

<210> 11551  
 <211> 380  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-F11

<400> 11551

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taaattactc atctattttg cctcccactg gttatattac tacacataca gatccctaca 180  
ccaactgata cagcaccctc caacattgcc agttctggag ctaatgctgc agaagctctg 240  
gctctggctc tcgtgctcac actctctgtg gctcaacttt tatagccacg cactctcggg 300  
gctgaaccgg atccttatga acccaagcga gtttatgcaa atctgggtacc ctacgcttgt 360  
taaccatttc aactggttcc 380

<210> 11552

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-025-Q1-K1-F12

<400> 11552

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tcgttctcgt cgtgtgectg gctctgtcag ctgccagcgc ctctgcaatg cagatgccct 120  
gccctgcgc ggggctgcag ggcttgtacg gcgctggcgc cggcctgacg acgatgatgg 180  
gcgccggcgg gctgtacccc tacgcggagt acctgaggca gccgcagtgc agcccgtctg 240  
cggcggcgcc ctactacgcc ggggtgtggc agccgagcgc catgttccag ccgctccggc 300  
aacagtgtg ccagcagcag atgaggatga tggacgtgca gtccgtcgcg cagcagctgc 360  
agatgatgat gcagcttgag cgtgccgctg ccgncagcag cagcctgtac gagccaactc 420  
tgatgcagca acagc 435

<210> 11553

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-F2

<400> 11553

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tcagcattta ggaccttctt ggacatagct ggtgacaact taagtggcaa gattttcacc 120  
gaggcatttg atgcggtctg cttccccctt acactcttct caagtttatt tgaacctgga 180  
tggtcttctg ggagttcagc agtctccatt aagggccttt tatcatcgct ggtggaagga 240  
ggcgctgaca atgtaaataca gtgttttctt gaagcagcgc gctttggaag tactgaactt 300  
gtacgcattc tgctgaaggc cgcatatcag aatagcttgg ctgtggacac cgatctggct 360  
ctagtgtatg cctctcatta ctgcaagttc aaaacaatgg aatgcctagt tgatgaaggg 420  
aacgtgagtt cttt 434

<210> 11554  
<211> 386  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-F3

<400> 11554

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accggtcaat gtgatctgaa ataaacatt gcgtgccaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
aataaaaaaa aaaaaaaaaa aaaaaataa aaaaaattaa gatccaacat gttaaacaaa 240  
actggaatct gacaaaatat tagtcttaaa ctctaaaaaa tatcaggcct atatccgcat 300  
ttaaacaagt ggaatatctt aaaaaacgtc attaaagaac attaattaca acagcttgta 360  
attccaaata gctaattgggt actttt 386

<210> 11555  
<211> 341  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-C5

<400> 11555

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gctgccagcg ccagcgccgg gacctcctgc atgccctggt gggccatccc gcacaacccg 180  
ctcacgagct gccgctggta catgaccagc cagacctgca gcataggacc gcgcctcccg 240  
aggccgcagc tgaacaggag atgctgccga tagctggcgg acatcacggc gtactgccgg 300  
tgcaaggcgc tgagcatcct catggacagc acggacccat c 341

<210> 11556  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-C6

<400> 11556

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caatgtcac aagctcctat agcttccttt cttcccccat acctctcacc agcgggtgtct 180  
tcagtatgtg aaaacccaat tcttcaacct tacaggatcc aacaggcaat cgcagcaggc 240  
atcttacctt tatcaccctt gttcctccaa caaccgtcag ccctattaca gcagttacct 300  
ttggtgcatt tggtggcaca aaacatcaag gcacaacaac tacaacaact tgtgctagga 360  
aaccttgctg cctactctca gcaacagcag tttcttccat tcaaccaact ggctgcattg 420  
aactctgctg cttatt 436

<210> 11557  
<211> 266  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-C8

<400> 11557

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ccttgctctc tgactcctgg acgtctactc aaacagccaa gcacgctccc agacctaccg 120  
atcattacac tacctcatat tccacttcga ctattcccca aaagcaacga tcatcaataa 180  
ccataaccaa tgaataagct gacacatga taatcctcag ccatcacata gactatcgta 240  
ctgaacattc tgagacctga tgcacc 266

<210> 11558  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-C9

<400> 11558

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agttgagagt gaccaatggg tttgggtggg ttgttctcag ccctgttgga acacagtgtg 120
tatccaagga agatcatcct attgtgcaaa gaaaaggatt ggctgtgggt gattgttcct 180
gggcacgttt aagtgatgtc ccctttgtga aactatgttg cgggtgctct cgtctcttac 240
catggttggg agcagcaaat cctgtgaact atggccgccc atgtgaactg tcatgtgtgg 300
aagctttatc agcagccctc ataatatgtg gggaggaaga tacagcacat ttgctgcttg 360
ggaaatttaa atgggggtcac gcattcttgt ctctaaacag agatctcctg aaagcatact 420
tccaatgt

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<210> 11559  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-025-Q1-K1-D2

<400> 11559

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cgacgtcgag ggcgccccga ccaagcgcgt cagcctctcg cccgacagcc cgtcggggtc 120
ggggtcgggg tcagggtcag ggtccgggtc cgggtccggg tccgaccgta gcgacctgag 180
ccacggcgcc ggccaggttt accgcccagt ggcgcggtcc ggcggggttc agccggcgga 240
ctgcgcgatg agccgtccgc tggaggaaga ggaggaggaa aaggaggacc cgctcacctc 300
cctcagcctc tcgcttccag gcacggacca gcggttccac cagaccgcg cccacagcca 360
gttccaggag ctcccggcgt cngccgcctc gcccttcccg cctccgccgc cggttctctc 420
ggcgtaccgc ttca

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<210> 11560  
 <211> 278  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-025-Q1-K1-D3  
  
 <400> 11560  
  
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 gtgcaacctg gccaccatca gcggcgctgc cgaatgcccc tggattctcg gcggcggaac 120  
 gatgccctcc aagtaactgc gaagagcata gtgcatgagg aatgagcttg tagctagctc 180  
 atatgtctga ataataagca cagcacgaag atgaatgcat ttctcggatc gttcatccgg 240  
 aacaataatt aaaggggatc cggatttggt cttgtgat 278

<210> 11561  
 <211> 385  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-025-Q1-K1-D4  
  
 <400> 11561  
  
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 aaaataaaat aaatataaat aaactgtact caatittaca atttcatctc ttgtaaaacc 180  
 ttgtctttac tcaatittat taccttttag atcatccttt ttcatcata tggcgtatit 240  
 ttcaagaagt gtaatcctat acaatittcc aaaatittta ttaccttaat ggaccattca 300  
 acattccact ttgtctacat attaatcctg ctagcttatt ctgcttatcc acagattaat 360  
 ccttataactt gcaatittcca ttata 385

<210> 11562  
 <211> 386  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 11562

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gagtgggtcga acgggaccgc aaggaggacc tgcggtggtg caagcaggcg tgcgagtggc 120  
agtacggaaa ggacacccccg cggaagaggg aatgcgagag cgagtgccgc gagcggcacc 180  
agcaagctga cgcgggagag gacggcgaca gcggcgtgga cgcctacgtc tcccgtccg 240  
ggagggggcga gtgccggcgc cagtgcctgc gccgtcacga gggccagccg tgggagaccc 300  
aggagtgcac gaagcgggtgc cgtcgtcgtg gactggccgt cgacatggag caagagtacg 360  
gtcgcggcag cgagagcgcg ggcaag 386

<210> 11563  
<211> 426  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 11563

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ccccgggcgg tgcgccccgt gtggtctgcc atccacgtcg ggtgcatcca ccgcaccgac 180  
gacgcggcct gcaccgacgc cggcgtctcg aagacggcgg ttcaggtgga ggcggagctg 240  
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gacgcgtaca aggagatggt ggggcagccc gagtgcccggt ggctcgacgc cgtggctgcc 360  
acgtcgagga ggatcagcgg ggaggtggcg ctggtggtag cggaccggtc ctctctgccg 420  
gactcg 426

<210> 11564  
<211> 434  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-025-Q1-K1-C2  
<400> 11564

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ttcctgagggc accagtgcag cccggcggcg acgccctacg gctcgccaca gtgccaggcg 120  
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 acatacgggtg tggctctgca gtccttcctg cagcagcagc cgcagggcga gctcgcgggcg 240  
 ctgatggcgg cccaggtagc gcagcagctg acggcgatgt gcggtctgca gctgcagcag 300  
 ccaggtcctt gcccttgcaa cgcagctgcc ggcggtgtct actactgagg aaactatgta 360  
 ctgtagtaat aatgtaatgg agccgctgac tagctaccta tagctagttc actcgtttag 420  
 cggcgatgag taac 434

<210> 11565  
 <211> 432  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-A6

<400> 11565

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 accgcgggac cattgcaact ctacatgcca aacatggtgg cgtcaggtgg cagcagatcg 180  
 acgccctctc tcgccttctc tctgtctgcg cctggacagc ctattacgag cacagctctt 240  
 ggcggtcctt ttggtcctaa cactcgact gcatggggca attcagatat ggctgctgcg 300  
 tcgtactctc agcctgaccg catgggcatg gatcaacaag caggaaccgg ttctgccatg 360  
 aatctgacaa ttgggtgtga tccaatgcc cagcagccac caccaaaata tgtcaaaatc 420  
 tgggaggggtg ac 432

<210> 11566  
 <211> 369  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-A9

<400> 11566

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gtgctatgaa agtgctcatg aacctttgtg tctccgtaaa ttaaagacct cttcctgtgc 180  
gccactcaca agtatagtca gacgagagct ttgagacaac aggcattcac tatgggtcaa 240  
cctgtccgct ctggaccata ggaaccagtc aagcacagat cactoccaga acaaaagcag 300  
gtaaattctgg cattcgttcg ctatTTTTTg cttttttatg ggtcaagcta tgatggtaaa 360  
acaatcatg 369

<210> 11567  
<211> 421  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-B10

<400> 11567

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cagtacccat ggtgagtacc tcacaggatg tatctggtgc gaggagcctc attcctcctt 180  
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cgctgggtggc tatcattgtc ctattgcagg taaccatcat agttctgcta actaggtccc 360  
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g 421

<210> 11568  
<211> 169  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-B11

<400> 11568

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atccttatatc tatacattat catctttatc acttctatca taacatcta 169

<210> 11569

<211> 369  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-025-Q1-K1-B12  
  
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 aagtagcagt acccatgggtg agtacctcac aggatgtatc tgatgcaaag agcctcattc 180  
 ctcccttttca agatcccca catagaacat gaagagattc ttacatcggg ttcacttcac 240  
 aagaactgtg gggttcacta acgtcacaca tgatatcaag ccaacttaat ccagtactag 300  
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 ggtcctccc 369

<210> 11570  
 <211> 434  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-025-Q1-K1-B2  
  
 <400> 11570  
  
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 ttgagactgg tgtcattaag cctgggatgg ttgttacttt tgggcctact ggtcttacta 180  
 ctgagggttaa gtccgttgag atgcacatg aggtctctca ggaggccctt cccggtgaca 240  
 atgttggtt caacgtgaag aatgttgctg tgaaggatct gaagcgtggg tatgtggcct 300  
 ccaactccaa ggatgaccct gccaaaggagg ctgctagctt tacctcccag gtcacatca 360  
 tgaaccaccc tggccagatt ggcaatggct atgccccagt tctggactgc cacacctcac 420  
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<210> 11571  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-B3

<400> 11571

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gtaccgcgag tgccagcgca accacgcggc gtccgtctgc gggcacgccg tggacgggtg 180  
ccgcgagttc atggcgctca gcgcggaggc cacggcggcg gcgctcacgt gcgccgcctg 240  
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ctgccgtgac cgcgcctaca ccacctgcgg gtgaactcga cgaagagtcg tgatgtgcat 360  
tggtggaatg gttgtttaca gtggttggtc ttgatgatt tttgagtgga tttttattgc 420  
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<210> 11572

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-B5

<400> 11572

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accgtcatcc cagccacatc gctgaccaca gcccagccc taacgtccat ggtctcaacg 240  
atcgtcctga tgatgatcct gcccgagggt gctaccgcac aggaaacaag tgaccattaa 300  
cgctacaccg cctcaactat caagtgtta actatgcaa gagcaaacad acccattact 360  
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<210> 11573

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-B7

<400> 11573

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ttttctcagt atcctcctct tggtcgattt gctgtccgtg acatgaggca aacggtggct 180  
gtcggagtca tcaagagtgt ggagaagaag gacccaactg gagccaaggt gacgaaggct 240  
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tcttgttgac atccttgcag ttgtcgcgtg aacaagtaat ctatgatggc aatgtttgcc 420  
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<210> 11574

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-B8

<400> 11574

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caagggtgagg cccctgagca gggcgctcaa ggggcttagg gcatggatca ccggccagag 180  
gaaagaccag tccccggca ccagggccag catccccatt gtccaagttg atccttcctt 240  
cgaaggcctg aatggcggag ccggtagctt ggtcaagtgg aaccccgtag ccaacgtcga 300  
cggcaaggac atctggactt tcctgcggac catggacgta cctgtcaaca ccctgcatgc 360  
tcagggttac gtgtccatcg ggtgcgagcc gtgcaccagg cccgtccttg ccgggcaaca 420  
cgagcg 426

<210> 11575

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-B9

<400> 11575

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cctatagctt cccttcttcc cccatacctt ccatcaatga tagcttcagt atgtgaaaac 180  
ccagctcttc agccctatag gctccaacaa gcaatcgag caagcaacat acctttatca 240  
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agggcacagc agctgcagca actcgtgcta cctgtgatca accaagtagc tctggcaaac 360  
ctttctcctt actctcagca acaacaattt ctccattca accaactgtc tacactgaac 420  
cctgctgctt 430

<210> 11576  
<211> 391  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-C1

<400> 11576

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gccaggtgtc caggteatct ccggccatt cgccggcgac gagcaccca ctagatcgac 120  
cgagctatgg acggcctgtg gcatctgggg gacgagctcc gcgggcagcc caaggtggtg 180  
gaggaccgcc agtggtegct catgacatcc aagctggcag agatcaccag gtccaggggc 240  
gagaggacga acgacctga ctacgccagg atgaacgccg gcccgcagc caagcagtgg 300  
ggcaaggcgg cgtcctacca gcaccacgac gagggcacga tggaccacca cgtcgggtctc 360  
agcctgaaga cgaacgatct caagatgaac g 391

<210> 11577  
<211> 412  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-C10

<400> 11577

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tcattattcc acaatgctca cttgtccaa gttccattat tacacagttc ctcccaccag 180

ttactttcaat gggcttcgaa caccagctg tgcaagccta taggctacaa caagcaattg 240  
 cggctagcgt cttacaacaa ccaatttccc agttgcaaca acaatccttg gcacatctaa 300  
 caatacaaac catcgcaacg caacagcaac aacaattcct accagcactg agccacctag 360  
 ccatggtgaa ccctgccgcc tacttgcaac agcagttgct tgcacaaac cc 412

<210> 11578  
 <211> 318  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-025-Q1-K1-A5

<400> 11578

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 gctctgcact gcacgcttga atgcaacctg ccctgccgg gctgaggctg acggtgccc 120  
 gctgacacat atgcccgcgc tgtccctccg agcctgagag cgatgaccgc tgcgcgcccc 180  
 tataccggtg ggcaccaccc agtcaacgtt cgcacagtgc tgcagcagcg atgaggatga 240  
 tggacgtgca gtccgtggcg caccagctgc agatgatgat gcagcttgag cgtgccgctg 300  
 ccgncagcag cagcctgt 318

<210> 11579  
 <211> 427  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-024-Q1-K1-H1

<400> 11579

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 tgttgatggg aactcttctc tatggtgtga agtacacact tccagagtat ttatgcacct 120  
 ttcttggtgc cggcgggtgtg tctctctttg cgttgttgaa gacaagctcc aagacaatta 180  
 agaagcttgc caaccctaatt gcacctcttg gttacacatt gtgcttctc aacttagctt 240  
 ttgatggata tactaactcg acccaagatt taataaagtc aaggtaccca aaaacaaacc 300  
 catgggatat aatgcttggc atgaacctct gggggaccat atataatgct gtaattatgt 360

ttgttgcgcc attactattc agtaactggc catatgcana tggttttgag gcattgagat 420  
 tttgcca 427

<210> 11580  
 <211> 407  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-024-Q1-K1-H10

<400> 11580

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 gtggcaagga gtcaaagatg gatttgcttg tgatggaaaa tcttttgttt ggacggaata 120  
 ttaccaggct ctatgatcta aagggatctt caaggtaag gtataatgca gattcaaattg 180  
 gtagcaacaa ggttcttctt gaccagaact taattgaagc aatgccaaact tcaccgattt 240  
 ttgttgggaa caaggcaaag cggctactgg aaagagctgt ttggaacgat acatctttcc 300  
 tagctggaat cgatgtgatg gactattcct tgcttgctgg agtcgacgag gagaaacatg 360  
 aactggtctt aggaattatt gattntatga ggcagtatac atgggac 407

<210> 11581  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-H2

<400> 11581

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 taacaacaat ggcttccaag acattatccc tcttgcgct tcttgccctt tttgtgagtg 120  
 caacaaatgc gttcattatt ccacaatgct cacttgctcc gagtgccatt attccacagt 180  
 tcttcctcc agttacttca atgggcttcg aacaccagc tgtgcaagcc tataggctac 240  
 aacaagcgtc tgcggcgagc gtcttagaac aaccaattgc ccaattacaa caacaatcct 300  
 tggcacatct aaccatacaa accatcgcaa cgcagcagca acaagcactg agccacctag 360  
 ccgtggtgaa ccctatcgcc tacttgcaac aacagctgct tgcaccaaac ccacttgctt 420  
 tggcaaacg 429

<210> 11582  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-H3

<400> 11582

gctcttcagc cctataggct ccaacatgca atcgcagcat gcaacatacc tttatcaccc 60  
 ttgttggttc aacaatcgcc agccctatct ttggtgcagt cattggtaca aaccatcagg 120  
 gcacagcagc tgcagcaact cgtgctacct gtgatcaacc aagtagctct ggcaaacctt 180  
 tctccctact ctcagcaaca acaatttctt ccattcaacc aactgtctac actgaaccct 240  
 gctgcttatt tgcagcaaca actattacca ttcagccagc tagctactgc ctactctcag 300  
 caacaacaac ttcttccatt taaccaattg gccgcactga accccgctgc ttatttgcag 360  
 cagcaaatac tactaccatt tagccagcta gctgcagcaa accgtgcttc cttcttgaca 420  
 cagca 425

<210> 11583  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-024-Q1-K1-H6

<400> 11583

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 cctgaagcgc ctcccgccca cggatctggc gtctctggtc agccctctcc ctctccctcc 120  
 ccgcgccagt gccggtgcct cgcccgggccc gctcgtgctc tacgacgact acgaggcgcg 180  
 gctgcgggag ctgcagcggc agcgcgactg gtacttgatg agcaccgcgg gtgcgggtcc 240  
 gggctctggac cccgcctact tgcacttgtc ggtggcggcg gggcatccgg ataacgagga 300  
 cccacagcag tgggtccccga ggcgacgacc gtccccgtgc cccgagtgcg aggcggcgcg 360  
 ggcggccatg cggcagccgg cgttccactg gtgcgtgcgc gnacgcgtgg tctccgcggg 420  
 a 421



<210> 11584  
<211> 424  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-024-Q1-K1-H8

<400> 11584

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agggtttgtt ccgtactgtg ctacattctt tgtcttcact gattacatga gaggtgccat 120  
gaggatctcg gccctgtctg aagccggagt catctatgtc atgaccacg actctattgg 180  
tctcggagaa gatggcccgga cccatcagcc catcgagcac ctggtgagct tccgtgcgat 240  
gccgaacata ctgatgctcc gccctgctga tggcaacgag actgccggag catacaaagt 300  
cgcggtcgtc aacaggaaga ggccgtccat cctcgctctc tccaggcaaa agctccctca 360  
cctgcctggc acctcgatcg agggcgtgga gaagggcggg tacaccatct ncgacaactc 420  
gact 424

<210> 11585  
<211> 293  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-A1

<400> 11585

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tgccagcgac ttgcaagaga aaaatagact ttcacgggtg ttggaacaca agaatgcttt 120  
acaggagaga atcatccaag aacgtgcagc tgaatttggc cgtctgaaga aagagagaga 180  
tgaacggatg aatcggttga tatcttcaag aaagcattaa agggagacag taaggaagtt 240  
gatggtttat ctgaacctgg aggaacagcg gattgaaatg cttcgtgagg gaa 293

<210> 11586  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-A10

<400> 11586

atgtcttctt tctactttct tgtaacctaa gacgaactcg gtgaactctt tctcctggcg 60

cagcaccgga gcacaatcaa ggattccagt ccagtcctgc caatggagtg cgttttgggc 120

ttggttggcc gcgacttcgc ggtgggtggcg gtcgacacct tcgccgtgca gagtatcctc 180

gtacacaaga ctgacgagga caaagtaatg gtcctcgact cgcacaagct gttggggcgct 240

tcaggggagc ctggtgaccg ggtgcagttt acggagttca tacagaagaa cctccacctg 300

taccagttcc gcaacaccat cccgctgtca accgccgctg ccgacaactt cacacgcggc 360

gagctcgcca cagcccttcg taagaatcca taca 394

<210> 11587

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-A11

<400> 11587

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cgagcagggg ggcacccgca tcttcggccc ctcccagaag ttctctctcc gcgacctcgc 180

cgcgcacacc tccctcaagc caagaaaaga cgggtcaacag acccaagagg agttacagaa 240

gaggaatctc agggaggaac ttgaggaacg tgagcgcaag cactactctt ccaaggataa 300

gtcctatgcc gaagaaagag accggcggaa aagctctagc catctactct tagaaggttc 360

aaagagagaa gcagaggata agatagttcc acgaggaatc gatgctgatg ac 412

<210> 11588

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-A12

<400> 11588

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tccttatgct ccttgggtctt tctgcaagtg ctgctacggc gaccattttc ccgcaatgct 120

cgcaagctcc tatagcttcc cttcttcccc cgtacctctc accagcgggtg tcttcggtat 180  
 gtgaaaaccc aattcttcaa ccctacagga tccaacaggc aatcacagct ggcatcttac 240  
 ctttatcacc cttgttcctc caacaatcat cagccctatt acatcagtta cctttggtgc 300  
 atttattggc acaaaacatc agggcacaac aactacaaca acttgtgcta gcaaacccttg 360  
 ctgcctactc tcagcaacag cagtttcttc cattcaacca actagctgca ttgaactctg 420  
 cttcttattt gcaaca 436

<210> 11589  
 <211> 423  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-A2

<400> 11589  
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 ggtagataaa aaaaaccagt atatcacaaa aaacacaaaa tttaaagacc taaaagagat 120  
 atgatgatga aagaacacct tacaagcggc cacaaatgaa aaaaccttca tcgaataact 180  
 ctggaatgga atccaaacat gatgatcttg atgctgactt ttcacaaccc acgtctgggc 240  
 aaagtagttc aaggcagcac gcttctaagc cggaagcctc acctttggac tttgtcattc 300  
 gtccacagtc caaaattgac cctgagcaga tacgggctcg tgctaagcaa gctgtccaag 360  
 accagcgtcc gctgaagatg aacaagaaat tgcaacaact gaaagcgccc aagaagaaaa 420  
 acc 423

<210> 11590  
 <211> 289  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-A3

<400> 11590  
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 aaaggaaaaa aaaaaaaaaa gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaca taaaaaaga aaatgaatgg 180

taaaactaaa aaacaaaatt tacatatata aattttaata atatacctaaa atttaaaaca 240  
 tggacaaaaa attaaaaaat catgaacgtg taaaattaac tagaatatt 289

<210> 11591  
 <211> 439  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-A4

<400> 11591

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 caagcttcat gacgtgtacg atgcaaatac aaataaaccg attcttgtgc tattcgctcg 120  
 gtgcttacca aaatttttca aagggtgtcta cctaagtggg ggtcctgcct gtagatggta 180  
 cttcaatcca acaattccag aggcagaacc ttatcttacc agccagtcta caaaaagaat 240  
 tgtgttacag cttccccaaa atttacaaca tcctccagcg atggaaacga agccaattgt 300  
 cgaacataaa tccctctatg aacttcttac agttaaccca tatgatttcc cggaaacagg 360  
 atttgaatgt actatcacia tagcagaaat accagctgaa cacaaatggg ggtttccatc 420  
 ttgcacaaaa tgcaataaa 439

<210> 11592  
 <211> 412  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-G9

<400> 11592

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 gtgaggcatc agtgcagccc gacggcgacg ccctactgct cgcctcagtg ccagtcgttg 120  
 cggcagcatt gttgccagca gctcacgcaa gtggagccgc atcacctgta ccaggcgatc 180  
 ttcggcttga tcctacagtc catcctgcag cagcagccgc aaagcgggtca tgtcacggtg 240  
 ctgttgacag cgcagatagc gcagcaactg acggcgatgt gcggcctgca tcagccgact 300  
 ccatgcccat acgctgctgc cggcgggtgtc tcccactgaa gaaactatgt gctgtactat 360  
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<210> 11593  
 <211> 412  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-024-Q1-K1-F3

<400> 11593

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ctatgtgaca agtgtcatgc agaggagcag aatacagcac agaaggacag gcattcggcc 180
accacaaaac agaagcatgc attcgaaaga atggaggtac aacctcttcc agagactgat 240
gatggagatc cgacaaatga aaagtagtat tttgacagca ngatcgattt cttgaagcac 300
tgccaagaca tcaattttcca gtttgatacc attccggcgg ccaaagcact ctacaatgat 360
gattctgtat tacctacaca attcaacctg ctctgcttgc catcgtgccg tg 412

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<210> 11594  
 <211> 402  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-024-Q1-K1-F4

<400> 11594

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agctcgggtg cggtgtggtc gagcgtgagc gtggcgggga tgccggtgct caagtcgctg 180
caggagagcc accgctgctt cgacgaggag gcgctggagg gcatccgccg cgccgtcgtc 240
gacagcgctt acgaggtcat cagcctcaag ggctacacct cctggggccat cggctactcc 300
gtcgccagcc tcgccgcgtc gctgctccgg gaccagcgcc gcatccaacc ggtctccgtn 360
ctcgccaggg ggttccacgg catccccgac gggaacgacg tc 402

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<210> 11595  
 <211> 417

<212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-024-Q1-K1-F5

<400> 11595

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 agctctggta atgggtgggc aactcagagg gcatctgcat tagcagctct atcatccgca 180  
 ttcaatccat catctcaaca aaggctgtct aatgagaggg ctaaaagcac aggcgatgga 240  
 cccacgcaac gtgcctcagc actggctgcc ttatctaata cattcaaccc atccttaana 300  
 cccaaaacat caccttcate tcgctcaggt cgaggttctc aaagagcagc tgctgtagct 360  
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<210> 11596  
 <211> 365  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-F7

<400> 11596

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 tacgacgcct acaactgggg cgacttcttc agcaccagga agaacagcaa cttcaagaag 180  
 ctcaacgtgg agaacattca gatcgcgcat ttcaagaaga gctcgtcctt cgctaacta 240  
 ctgctactgc taggatccat gccattgcca tgctgtcttc agattcagag cagcccatgt 300  
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<210> 11597  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-F8

<400> 11597

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ccggttggtc cgcttgtgac ccaagacttt cgccctgac gtgttcgcat cttcgttgat 240

attgttgctt agactccaac agttggctga caaggatatg ccttatctat aggccaaata 300

aacaaagcct acttttatgt atcatggcta ataaatccta catttcttgg ttaaaaaaaaa 360

agaaaaaaaa ataaaaataaa aaaagaaaaa aaaaatataa aaaaaataaa aata 414

<210> 11598

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-F9

<400> 11598

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cccttcttcc ccatacctt ccatcaatta tagcttcaat atgtgaaaac ccagctcttc 180

aaccatatag gcttcaaaa gcaatcgag caagcaacat acctttatcg cccttggtgt 240

ttcaacaatc gccagcccta tctttggtgc agtcattggt acaaaccatc agggcacaac 300

agctgcagca actcgtgcta cctctgatca accaagtagc tctggcaaac ctttctccct 360

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<210> 11599

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-G1

<400> 11599

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tgctgaaagg ccagtctaaa gaaacgctcg ttaagcttga caggcaggag ttgttgttca 180  
 gccagactc gacgacggtg agttcgcagg gaacaccgac cctagatggg agcacggact 240  
 ctgcgccgtc ctagatagat caagaactga ttggggcgtg agttgcgata tatagctgct 300  
 ctaggcgatt gtctagggcg tatccgtggt attgatgatt ggtctgcgcg gattgacgtg 360  
 aatgcgaatt gtatagggcat tgactggcca tctacgtatg gtttctgtcg catttgaggg 420  
 agta 424

<210> 11600  
 <211> 406  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-024-Q1-K1-G10

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 cggccgtggc caaaggacct gcagggccga cgacgaagaa gcagtgtctg tgccgagagt 180  
 gcaccagctg gtcgggctg tggacctgcg acgacctct caccaagtgc gccgccacct 240  
 gcaagaactg cgtccccgtg tccacggaca agggggccat caagtacagg tgccgagact 300  
 tctccccga aaactgcggc tgcaagatcc actagagact catccaattc caccatggcc 360  
 gngcgccaca gcggcacagc cgatggatcc ttccatgttc ctccgt 406

<210> 11601  
 <211> 408  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-024-Q1-K1-G12

<400> 11601  
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 gccgagacag gatgcactcc tttgggcacc gcgccaacgc ggtggcaacg ttcgcggtca 180



ccatactggc cgcgatttgc ttcgccgcct cttctccga caacttcaac accccgacac 240  
 ccactgcctc cgtaagatc ttgaatctaa actggttcca gaaggaggcc aacggcaacg 300  
 acgaggttag catgacgctg aacatttcgg ccgacctttc gtctcttttc acgtggaaca 360  
 canaacaggt gtttgttttt gtggcagcag agtatgagac tccacaga 408

<210> 11602  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-G2

<400> 11602

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 cacccttggt cctccaacaa tcatcagccc tattacagca gttacctttg gtgcatttat 300  
 tggcacaaaa catcaaggca caacaactac aacaacttgt gctagcaaac cttgctgcct 360  
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<210> 11603  
 <211> 173  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-G3

<400> 11603

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 aaatccaccc gtttcttaaa cgccagtcta aacaaactct cgtaaatctt gaa 173

<210> 11604  
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 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-024-Q1-K1-G4

<400> 11604

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gggcggcagg aagaaggccc ccaaggcgaa gacgaactan ggctgcttag atagctgcac 180  
gcctcagggt gngtgtatca ggagacaggt ctatttcgaa gcaggctcag cgcatgcag 240  
cgaatgccat cgagctgcgc ttttacatgt ttatcatcag attccatttt gcggcccgaa 300  
caaagggtgt accgngtgg gttaggcgac tagattgcac gattatgtac ttgagatttg 360  
tttgttgaac tgggttgccg acggttaatc ttctccattt gattttatct tgtagcagc 420

<210> 11605

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 11605

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aggagaagaa ggatttaaac aatctaagaa aaggagacct ggtgtttctc ctggtgacag 120  
gtctggtggt cttgctaagc gaggtaaaga aggaaagaac aggagggcaa aggattccat 180  
gtttgggcac ggtggtcgta aagggtgaa gaagcaaaac accgctgaga ccactaatga 240  
tttcagaagc ttttaaccagg ggggtcagtc tcaaaacaag aagagaaaga ggttttgaac 300  
ttttgatgga tatattaaga atttggtgta gtctcaaaac cagaagagga agaagtntg 360  
aacttttggt ttattactat tccccctgc ggcattattn tgttatggtg tgt 413

<210> 11606

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-G6

<400> 11606

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gatattatcc ctctttgcgc ttcttgccct ttttgtgagc gcaacaaatg cgttcattat 120

tccccaatgc tcacttgctc ctagtgccat tattccacag ttcttccttc cagttacttc 180

aatgggcttc gaacacccag ctgtgcaagc ctacaggcta caacaagcgc ttgcggcgag 240

cgtcttataa caaccaattg occaattaca acaacaatcc ttggcacatc taaccataca 300

aaccatcgca acgcaacagc aacaacaatt tctaccagca ctaagccaac tagctgtggg 360

gaaccctgtc gcctacttgc aacagcagtt gcttgca 397

<210> 11607

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-G8

<400> 11607

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ctacttctga aagactcccc atcaaaagag agactgcagc aaagcataat gatatttccg 120

ctgtacgtcg accctctaca ggagagagac gtgcttttac tagagatggg gttctgagaa 180

ctgatgtgaa gacacctagt aaggcaagag caactgtggc tcatccgatg agtgaaatga 240

ctacagtggg caatacgaga aaggctatca ctccaaatgc agctagaagt agcaagctgg 300

aaacaaaaag caataactac agactgaagg gaccttcagc attggatagc cactctacta 360

ggtcaaacag aatggacttg caagtgtctg gcaagcagaa atcgagttct gttaacct 418

<210> 11608

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-F2

<400> 11608

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aaaggaaaaa aaaataaaaa aaaaaaaaaa aaaaaaaqaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaataaaa aaaaaaaaaa ataaaaaaagg cctactttttt 180  
 taaaattttc aattttttatt aaagttacat aacaaaaaatt aacttttcttt tttttaaaac 240  
 taaattaaat ttaaaaaaac ctgtttttaa aaattttta tggaaaaaac ttatgttaac 300  
 caaaataaat tgcttttaaaa aaaaaaacct tttttccaat tgggtttata accaaaaggc 360  
 cccttttaaat gcccatttta aaaaattttt aaaccttaat ttaaaaag 408

<210> 11609  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-D4

<400> 11609

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 gctgcttcgt cggcggtctc gctgtggcca cggacgacca ctccctccac aacgccttca 180  
 gcacctacgg cgaggtcttc gagtccaaga tcattctcga tcgggagacg cagaggtccc 240  
 gcgggttcgg ctctgtcacc ttctccacgg aggaggcgat gcggaacgcc atcgagggca 300  
 tgaacggcaa ggagctggac ggccgcaaca tcaccgtcaa cgaggcccag tcccgcggcg 360  
 gccgtggagg cggcgggcgt ggggtacggt gtggccgtgg aggcggcggc tacggcggtg 420  
 gc 422

<210> 11610  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-D8

<400> 11610

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 aagttcgtca gcgacggcgt gttctacgcc gagtcaatg agatgctgac gcgggagctc 180  
 gcggaggacg gctactccgg cgtggaggtg cgcgtcacac cgatgcgcac ggagatcatc 240

atccgcgccgca cgcgcacgca gaacgtgctc ggcgagaagg gccgcaggat cagggagctc 300  
acgtctgtcg tccagaagag gttcaacttc cccgagaacg gcgtcgagct ctacgccgag 360  
aaggtcgtca accgcggcct ctgcgccatc gcgcaggctg agtccctccg ctacaagctc 420  
ctcgg 425

<210> 11611  
<211> 386  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-E11

<400> 11611

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gaggcatttg gtggacctgg tggcaaatat ccacagtact actggtcata cattgaacta 180  
aagagggcag gagtaatgtt cccacaacgt cctgtagatg ctccctccaat atttactcct 240  
actgcaacac atcaggcata tggttcacct agatatcctt ctggaagtct aaatgagaga 300  
atcacatctg atgctggaac gttgagcttt gagggcttga ataattattag aaatgcaacg 360  
gaactgctgt atgatatggg gaatgc 386

<210> 11612  
<211> 408  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-E12

<400> 11612

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aacaactcgt gctagcaaac cttgctgcct acgctcagca acagcagtta cctttgggtg 180  
aattgttggc aaaaaacatc agggcacaac aactacaaca actcgtgcta gcaaaccttg 240  
ctgcctactc tcagcaacag cagtttctgc cattcaacca actagctgca ttgaactctg 300  
ctgcttattt gcaacaacaa caactactac cattcagcca gctagctgct gcctaccacc 360

agcaatttct tccattcaac caactggcag cattgaactc tcttgctt

408

<210> 11613

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-E2

<400> 11613

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ggcgatgcgg aacgccatcg agggcatgaa cggcaaggag ctggacggcc gcaacatcac 120

cgtcaacgag gccagtccc gcggcggccg tggaggcggc ggcggtgggt acggtggtgg 180

ccgtggaggc ggcggttacg gcggtggcgg gcgccgtgat ggcggtggcg gctacggcgg 240

tggcggcggc tacggtggcg gcggcggcta cggtggtggt ggcggcggct acggcggtgg 300

caaccgtggc ggcggttacg gcaactccga cgggaactgg aggaactgag cggtggggcc 360

cgcgcgccca agttatcctg ttcgctaccg tgatgtttac cctagtc 407

<210> 11614

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-E6

<400> 11614

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atcacttctc ctatctaagc attaacatct taacatgaat acctccatac cataaccaca 120

aaaaagccca ataacgctcc aaacgctaag actaactatg actgtacaca tacttacata 180

catgacgctg ctactatcat tacacatgcc tatatatcag cacgctcaac gctatacacc 240

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aaacatt 307

<210> 11615

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-E7

<400> 11615

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ccgggggaga ttatgtgatg gtgataagct atggggcggcc caagtccgcg tcctgttaaa 180  
accatatcac catcgacggc ctggcgaggt cgattcctag ttcgaacaag ggttggtgcc 240  
gccgccgctg ccgcgcgcgg ggaagaggcc gtcgacagat aaactcaagc agcggtagcg 300  
ggctgctctg ccgcagcagc tcgtcctctc accggcgtgt tctttaaaga tctgttcgtt 360  
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<210> 11616

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-E9

<400> 11616

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gtggggcgct tcctggccgc ctccgagccg gccgtgtccg tgcagctcgg cgaccacggc 180  
cacctcgcct actcccacac caaccaggcg ctccctccgcc ccaggtcgtt cgcgccaag 240  
gacgaggtgt tctgcctgtt cgaggggggtg ctggacaacc tgggtcgtct gagccagcag 300  
cacgggctgt caagcaaggg cgccaacgag gtgctcctcg tcatcgaggc ctacaagacg 360  
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<210> 11617

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-F10

<400> 11617

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cccacaatgc tcacaagctc ctatagcttc ccttcttccc ccatacctct caccagcggt 180  
gtcttcaatg tgtgaaaacc caattgttca accctacagg atccaacagg caatcgcaac 240  
aggcatctta ccattatcac ccttgttcct ccaacaaccg tcagccctat tacagcagtt 300  
acctttgggc catttgggtg cacataacat cagggcacaa caactacaac aacttgtgct 360  
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<210> 11618

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-F11

<400> 11618

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cacctgtgaa gagctgaata cgttttgtct cagtgcgcga gtagagtagc ttaacactac 180  
atactgtaaa catcatcatt tatcagcacg ggatcctatt ctccaaaagg aaaaagacaa 240  
tatttttttt tgatcaacta tgctccctc atagctagag atagtaagca gggctctgcct 300  
gccggatggg ctgttgatga ggctagaaga tcgttggggc tcggaacggc aagcagacaa 360  
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<210> 11619

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-F12

<400> 11619

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ctgatggagg cgaaggaggt gtccgggaag accttctcgg gaatcgccgc cgagacgggt 180  
ctcaccaacg tctacgtggc gcagctgctg cggcgccagg cgcagctcaa ggccgacacg 240



gtgcccgcgc tgagggcggc cctgcccacg ctcacggacg acctcatcga actcatgatg 300  
cagccgccect tccggctcta ccacccaac atcgtccacg agcccgccat ttacagattg 360  
aatgaagctg ttatgcattt tggagagagc atcaaggaaa tcata 405

<210> 11620  
<211> 418  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-B4

<400> 11620

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cagttttgat atcagttact tcttatgcgc tgggtttata tttcattgct aagtctccat 180  
ggtatcttct tcccttggct tgggcttggc caggcacagc agtgactggg ttttttgtga 240  
taggtcatga ttgtgctcac aaatcatttt caaggaataa gttggttgaa gatgttggtg 300  
gaaccttggc tttcatgcca ttgatatac cttatgaacc gtggagattt aagcatgacc 360  
gacatcatgc caagacaaac atgttgatag aagatactgc atggcaacct gtttggca 418

<210> 11621  
<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-B5

<400> 11621

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agcccatccg gatggcctcc atcctcgagc cctccaagcc cagctacttc ccggcgatga 180  
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aggagacgct ggagaacctc aagctctcca tcaagtccac caagaagctc tgcgctgtca 360  
tgctcgacac cgtgggcccc gagctgcagg tggatgaaca gagcgagacc ccgatct 417

<210> 11622  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-B6

<400> 11622

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taatctataa cttccctgag gaactctttg ctgacgctgg cataacttgca attgagcatg   180
ctgactttga gggcattgaa cggctggctc ttgttactgg tggtgagatc gcatcaactt   240
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gggaggacag gctaatacat ttctctgggg ttgcgatggg gcaggcttgc accattgtcc   360
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<210> 11623  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 11623

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tcctaagcaa gccaaaggcg cgcccaagag acgagacaca ngagactctg cggactacac   180
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<210> 11624  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-024-Q1-K1-B8

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gcttgtggca gaactttcta cgaaaggctt gggaaggccc gtatattgct cgaaggatta 360  
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gt 422

<210> 11625  
<211> 218  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-B9

<400> 11625

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tgtagaaatt acgatttaga cttgtttcta aatgaataat tgtatatata attagaagat 180  
catgatcggg tgagaaaaaa attggtggta ttggaact 218

<210> 11626  
<211> 389  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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agctggagcg ggaagtggcg gcgctgcggc tggagctggg cgcgggcgcg cgccgcgccg 180  
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<210> 11627  
<211> 200  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-C11

<400> 11627

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aaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaggaa 120  
aaaatgttat gggatttaaa ggtaacttaa cttgaattgc cgtgggttaa caataatgtg 180  
gctgaaaaaa acttgagtaa 200

<210> 11628  
<211> 401  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-C12

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ttaaacttgt gagatatacc gtacatatga agagctagct agtagtgagt gataaagtgg 180  
gaaagtgaag catatatagt cgtaaaaaca atcacatgaa ttgctattag gcaccatata 240  
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aattgcagtg cgaagcacca tatatatata tgcagtggca gcatgcagaa accaaaaaag 360  
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<210> 11629  
 <211> 281  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-024-Q1-K1-C3  
  
 <400> 11629  
  
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 gcaacaaatt tgatgttgac acccgtctgg ttgaggggtct ggtcctggac cacgggtctc 180  
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<210> 11630  
 <211> 417  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-024-Q1-K1-C4  
  
 <400> 11630  
  
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 cattgcacca tcttgagcaa aattatgaat tcatgacatc tgatcaccag tatatttccc 120  
 ggaaacatga ggaggataag gtgattgtgt tcgaaaaggg agatttggtta tttgtgttca 180  
 acttccactg caacaacagc tatttttgact accgtattgg ttgtcgaaag cctgggggtgt 240  
 ataagggtgt cttggactcc gacgctggac tatttggtgg atttagcagg atccatcacg 300  
 cagccgagca cttcacgcnc gactgttcgc atgataatag gccatattca ttctcggttt 360  
 atacaccaag cagaacatgt gtcgtctatg ctccaatgga gtgatagccg ggtactc 417

<210> 11631  
 <211> 220  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-024-Q1-K1-C5  
  
 <400> 11631

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cagccatattg tgcacgtcaa cttctaccgc atctatgggtg atacgttcaa gaaaccaagg 120  
cgtgcttatg agacggagcg tcttgatgct gcaactgaaac tagctactga gtattgcctg 180  
aggtgcaaac atgagcttat caggagacac tatgcactga 220

<210> 11632  
<211> 345  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-C6

<400> 11632

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accatacaag agatagcaac gcatcaatta caacaatcta gaccagcact gagccaacta 120  
gctgtgaaga accatggcgt ctactggcaa caggagctga tcgcatgcaa ccaactagct 180  
ctggctaaca tagtggcata ccagcaacac caacagtcgc aacagcattc taccagcgct 240  
cagccaacta gccatgggtga accctgacgt ctacctacga cagctacaac tgagttaatg 300  
tagcacctat aggtgagggg aacgcaccta catacctgca gcaac 345

<210> 11633  
<211> 276  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-C7

<400> 11633

cgcaaattgc accaagaaat ccatcgagag gccgtcgaca ggggaattaa tggcgtggtc 60  
gtctagcaac agccaccgcc gcctcactct cgcagccgcc gtctgtctct ccgtgctcgc 120  
ggctgccagc gccagcgccg ggaccttctg cgtgccgggg tgggccattc cgcacaaccc 180  
gcttccgagc tgccgctggg acgtgaccag ccggacctgc ggcacgggc cgcgccttcc 240  
gtggccggag ctgaagagga gatgctgccg ggagct 276

<210> 11634  
<211> 251  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-C8

<400> 11634

aaaaaaaaa aaaaaaaaaat aaataaataa aaaaaaaaaa aaaaaaaaaa atgagaaagg 60

aaaaataaaa aaaaaaaaaa aaaaaataaa aataaaaaaa aaaaaaaata aatataaaaa 120

ctaaaaaata aaaaaaaaaa aaacaaaaaac aatactgcat gcctttatgg gccataaagt 180

acaaccgct accgatctaa ctttggtact ttaccaggcg gacctgaagt atatttcctt 240

gcctcccggt t 251

<210> 11635

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-C9

<400> 11635

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atccgcgccg accgaggctc ccgcctccga gcgaaaagcg ccggcgccgg cggagaaggc 120

ttcgaaggaa gtcctactc ctgcgcctgc gaagaaggaa gcccctactc ctgcggctga 180

cccgtcggg agcgccaggg ggaaggtgca ggaggagggtg atgaaggagt tcgcggccat 240

catggccagc ggtacgctac gggccagcga ggcggcggcg ctggccatgc gccgggtcat 300

ggagcgccac agcgacggcg ccacgatgca gcagggctag acgaatcagg ctgtgaacgc 360

gttccgggtc catgggaatt ggaatttgtc atctgcatgc tgatgcc 407

<210> 11636

<211> 168

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-024-Q1-K1-D1

<400> 11636

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aaatcaaacg tgatagtccc aaaatatctc aggtctatca ctttcaagct attcaacttc 120

aatccacact tcaataactca atcacctttc acattcccat aacttttc 168

<210> 11637  
<211> 245  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-D11

<400> 11637

cccacgcgtt cgtccacgcg ttcgcccacg cgttcgcaca agtccaagga gtgccttgct 60  
ctgatcctca tcatcaggaa caggctcaag tatgctctga actaccgtga ggtcatttct 120  
atcctgatgc aacgccatgt acttggtgat ggcaagggtca ggactgacaa gacctaccct 180  
gctgggttca tggatgtcat ttccattcct aagacaatgg agaactacag gctgctttat 240  
gacac 245

<210> 11638  
<211> 117  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-D12

<400> 11638

ggcaaattat ggttcctccc tgttcggttg agtggttgca ttctggaggt atcttgttct 60  
ggactcaggc taatgattgt gcgtgcgact gtttcagagt catttcaaag gttatcc 117

<210> 11639  
<211> 406  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-B3

<400> 11639

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aaagagtatt cagtcagccc tcatcgagg ctctgtctg gctttcacat ctgctgtgct 120  
ggacattggc ggcaatacga ccagagttga caacggcaaa gagtactatg cctacacaac 180  
tgagaagaag cctgcaaatt gattccaagt ctgcacttct agcaaacaat cttgcacgcc 240



atcaactcag tgaatttgaa gctgatgtgc agttttatgt ctggtttgct gatgcaatta 300  
 gttcttaagc aaatccatgg caacttgttt atcgctgatg cttgagggat ggaaatgaca 360  
 ctcagaataa tatttgattt gctttcttgt gatcgttgat caccat 406

<210> 11640

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-H8

<400> 11640

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 gccgcctgcc gcctgccgcc ctgcgccagg tgccaagcag ccaggtgttc ttggggccct 120  
 tcgccggcga cgagcaccac cagctgaaag atggcgagga taccgtctct gaagagcctc 180  
 aatgcgtttc cacatgcgga agagcacttg ttgaagaaga cttactctgg cgctgttggtg 240  
 acaatttttg ggctacttat aatgattaca ctgtttgtgc atgagctgca gttttatctt 300  
 accacctaca cgggtgcatca gatgtctgta gatctgaaac gaggagaaac tctgccaatc 360  
 catatcaata tgtcatttcc ttctttgccca tgtgaagtat tgagtgtgga tgcaattgac 420  
 atgtctg 427

<210> 11641

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-023-Q1-K1-H9

<400> 11641

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 gagcatgtca gcaagacgtc catcctggat gacttcgcct tctatgagag tcgccagaag 120  
 ctgatgcagg ataagaggtc gaaacagcag cagggtccaaa agcagggtctg ggacagtagg 180  
 acccccattt ctgtcactgg aagcgagcaa cagcaggaag ctgccaatgg gaagcccaat 240  
 ccgtctgtac caaacggtgt ccctgcagag gtgaaggcgg cgaagggttc tgcagagaac 300

ggcaccgnca ctccagctat ttcctacgcy gcaaagggtgg cccaagcagc aacagagaaa 360  
cctgtgctcg ccaacggagt cgctaagacc ggtagctgg acc 403

<210> 11642  
<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-A1

<400> 11642

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agccgggcaa ccctaccaa tgggccaagg ccatgggaag ggacctgagg gtccacttca 120  
agaacacaag ggagacagct tttgcgcttc gcaagctgcc tttgaccaag gctaagcgat 180  
accttgagga tggtattgct cacaagcagg caattccctt ccggagatac tgtggagggtg 240  
ttggtcgcac cgcacaagca aagtctcgcc actccaatgg gcagggtcgc tggcctgtta 300  
agtcagccag gttcatattg gatttgctga agaattgctga gagtaacgct gatgtgaaag 360  
gcttggacgt ggacaacctc tatgtttcac acatccaggt gaaccaagcc cagaagc 417

<210> 11643  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-A2

<400> 11643

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cttccttatg ctcccttggtc tttctgcaag tggtgtacc gcaaccattt tcccacaatg 120  
ctcacaagct cctatagctt cccttcttcc cccatacctc tcaccagcgg tgtcttcaat 180  
gtgtgaaaac ccaattgttc aacctacag gatccaacag gcaatcgcaa caggcatctt 240  
accattatca cccttggttc tccaacaacc gtcagcccta ttacagcagt tacctttggt 300  
ccatttggtg gcacaaaaca tcagggcaca acaactacaa caacttgtgc tagcaaacct 360  
tgctgcatac tctcagcaac atcagtttct tccattcaac caactggctg cattgaactc 420  
tgctgctt 428

<210> 11644  
 <211> 261  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-A3

<400> 11644

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 gccaaaatat tttgcttccg tatggtcctt gatctttctg caagtgtctgc taccgcaacc 120  
 attttaccac aatgctcaca agctcctata gcttcctttc tttccccata cctatcacca 180  
 tcggtgtctt cagtttgtgc aaaccctatt cttaaacctt acagcatcca acaggctttt 240  
 tgtagcacgc atattacctt t 261

<210> 11645  
 <211> 424  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-A4

<400> 11645

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 cttatgctcc ttggtctttc tgcaagtgtc gctaccgcaa ccattttccc acaatgctca 120  
 caagctccta tagcttctt tcttccccca tacctctcac cagcgggtgtc ttcagtatgt 180  
 gaaaacccaa ttcttcaacc ctacaggatc caacaggcaa tcgcagcagg catcttacct 240  
 ttatcaccct tgttcttcca acaaccgtca gccctattac agcagttacc tttggtgcat 300  
 ttgttggcac aaaacatcaa ggcacaacaa ctacaacaac ttgtgctagg aaaccttgct 360  
 gcctactctc agcaacagca gtttcttcca ttcaaccaac tggctgcatt gaactctgct 420  
 gctt 424

<210> 11646  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-A5

<400> 11646

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gcaagctcct atagcttccc ttcttcccc gtacctctca ccagcgggtgt cttcggtatg 180

tgaaaaccca attcttcaac cctacaggat ccaacaggca atcacagctg gcattctacc 240

tttatcacc cttgttctcc aacaatcatc agccctatta catcagttac ctttgggtgca 300

tttattggca caaaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360

tgcttactct cagcaacagc agtttcttcc attcaaccaa ctagctgcat tgaactctgc 420

ttctt 425

<210> 11647

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-A6

<400> 11647

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ccttatgctc cttgggtcttt ctgcaagtgc tgctacggcg accattttcc cgcaatgctc 120

gcaagctcct atagcttccc ttcttccac gtacctctca ccagcggagt cttaggtatg 180

tgaaaaccca attcttcaac cctacaggat ccaacaggca atcacagctg gcattctacc 240

tttatcacc cttgttcttc aacaatcatg agccctatta catcagttac cttcggtgca 300

tttattggca caaaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360

tgcttactct cagcaacagc agtttcttgc attcaaccaa ctaactggat tgaac 415

<210> 11648

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-A7

<400> 11648

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acagatgatg acgcctaaca tgatgtcacc attgatgatg ccgagcatga tgtcaccaat 120  
 ggtcttgccg agcatgatgt cgcaaatgat gatgccacaa tgctactgcg acgccgtctc 180  
 gcagattatg ctgcaacagc agttaccatt catgttcaac ccaatggcca tgacgattcc 240  
 acccatgttc ttacagcaac cctttgttgg tgctgcattc tagatggaat aattgggggtg 300  
 gtcccaatta tggagtgacc ttgcattggg tgggaactaa ttataattac cattaaacca 360  
 ggtttctttt aaaaaaaaaa aaaagggccg gccg 394

<210> 11649  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-024-Q1-K1-A8

<400> 11649  
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 ctacatcagt catattcttc gacgagtggg ttttcaatac tgaagctcac ccattgagaa 120  
 ttgctccagt aagtgataac aaaggcattg gaacaccggt ccgacaattc aggagaaaac 180  
 agggaaagcc tgagtaacct tggatataga gcagtggatt tttgaatctg ccgtctgatt 240  
 atgaccgtcc tgacgatgtg ctctgacacg agggaaacttt ttgcctgaag caataagggg 300  
 taaaaaatta cgggatagat tgcttagagc aaanatcata ggtagaggat gatgttatat 360  
 gcggcgcatt gacctccgtg aggtcaagag ccccatagaa gcttctatct ttggatttgc 420  
 t 421

<210> 11650  
 <211> 357  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-024-Q1-K1-A9

<400> 11650  
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 aggtgacaac atgattgaga ggtccaccaa ccttgactgg tacaagggcc caaccctact 120

tgaggctttg gacttgatca atgagccgaa gaggccttca gacaagcccc tgcgtctccc 180  
 cctacaggat gtgtacaaga ttggtggtat tggaactggt cctggtgggc gtgttgagac 240  
 tggatatcatc aagcctggta tggttgttac ctttggctct agtggcctta ctactgangt 300  
 gaagtctggt tgaaatgcac catgaggctc tccaggaggc ccttcttggg gacaatg 357

<210> 11651  
 <211> 413  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-024-Q1-K1-B11  
 <400> 11651

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 ctgcctggg ccacggacga ccactccctc cacaacgcct tcagcaccta cggcgaggtc 180  
 ctcgagtcca agatcctcct cgategggag acgcagaggt cccgcggctt cggcttcgtc 240  
 accttctcca cggaggaggc gatgcggaac gccatcgagg gcatgaacgg caaggagctg 300  
 gacggccgca acatcacctg caacgaggcc cagtcccgcg gcggccgtgg agggcggcggc 360  
 ggtgggtacg gtgggtggcg tggaggcggc ggctacngcg gtggcgggcg ccg 413

<210> 11652  
 <211> 393  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-024-Q1-K1-B2  
 <400> 11652

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 catcctcgca gccgcgtcc tgetctccgt gctcgggct gccagcgcca gcgccgggac 180  
 ctctgcgtg ccgggggtgg ccatcccgca caaccgctc ccgagctgcc gctggtacgt 240  
 gaccagccgg acctgcggca tcgggccgcg cctcccgctg ccggagctga agaggagatg 300

ctgccgggag ctggcggaca tcccggcgta ctgccggtgc acggcgctga gcatcctcat 360  
ggacggcgcg atccccggcg gcccggaacgc gca 393

<210> 11653  
<211> 418  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-H7

<400> 11653

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cttcgctggg tcatcccatg ccaagggcat tgtcctggag aagattggtt ttgaggccaa 180  
gcagcccaac tccgctatcc gtaagtgtgc tcgtgttcag cttgttaaga atggcaagaa 240  
gattgctgcc ttcgtgccaa atgacggttg tttgaactac attgaggaaa atgatgaggt 300  
cttgattgct ggatttggtc gtaaggggca cgctgtggga gatattcctg gtgtccggtt 360  
caaggtcgtc aagggttccg gtgtgtctct gcttgccctt ttcaaggaga agaaagag 418

<210> 11654  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-G3

<400> 11654

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tgctcacaag ctctatagc ttccttctt ccccatacc ttccatcaat gatagcttca 180  
gtatgtgaaa acccagctct tcagccctat aggtccaac aagcaatcgc agcaagcaac 240  
atacctttat cacccttggt gtttcaacaa tcgccagccc tatctttggt gcagtcattg 300  
gtacaaacca tcaaggcaca gcagctgcag caactcgtgc tacctgtgat caaccaagta 360  
gctctggcaa acctttctcc ctactctcag caac 394

<210> 11655

<211> 407  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-023-Q1-K1-G4

<400> 11655  
  
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 ttatatttaa aaaggctctg ctagctccct attcagctat aaacatttca gaggcaatat 180  
 acattagacc gtggactcaa atccatctgt tcaactagcta tatgtattag cagactgaat 240  
 caactcaagg gcttgatgag cgtgtgctct tgcttgtcag agacgacctc attgtgacaa 300  
 tggcagattc gtttgogccc aaccgcaccg ncttggttgc cgctgcaga aagctcgtga 360  
 tggctcgccg cacgtacgca tcggcctggt tgactgtcat cttcttcc 407

<210> 11656  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-023-Q1-K1-G5

<400> 11656  
  
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 ccgcggcagg cgacgctgca gcaggtgaag cggtcgctgg tcatcgcgct gtccccggtg 180  
 atcgacagcg ccaagacggt ggggctcatc gcgtgcggg gcgccatgac ggggctcatc 240  
 atgggcggcg cgctgcggct tgaggccatc cagctgcaga tcgtcgatcat gaacatgctc 300  
 atgggcgcct ccaccgtcag cagcatcctc tccacctacc tctgctggcc ggccttcttc 360  
 accaaggcct tccagctcga cgacagggtc tttgcagact aagatacctg ct 412

<210> 11657  
 <211> 394  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-023-Q1-K1-G6



<400> 11657

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ataagagaca tgaaatgtcc caagtttctt ttgatccatg gtgaacctac ttaatatctg 180  
agagatatac tgggggaaaa tggaggctgc ggcaatcctt gtgcagttgg gccgtggaat 240  
acagcatatg caagtgtttg attgtgcagc attctttatt acttggtcgc aatatagatg 300  
ggctgagccg aacagcaagg tatttttgatt ctgcactgct cccgtgtaca aacttggttc 360  
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<210> 11658

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-G7

<400> 11658

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gacaaaccaa ctgagatgga gtttctactgg tgcttttgag gcaagacagt cgctgatagt 180  
tagaggcctc tttccgatgc ttgcagatcc tcggcatcca gccgaatcaa ccagtaatac 240  
aaatgagtca gttctgaagg ttgctctaga ccatggcaag gcatgtggtg tgatcaagtc 300  
ccatgaccgt gttgtcgttt gccagaaggc gggagattca tcggttgtga agatcattga 360  
gctggacgac tagggcatac tttgccgatt ttttttttga 400

<210> 11659

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-G8

<400> 11659

atgatcttag gcagattgag ccacaataca ttcaccaagc aatctacaac atggttcaat 60  
ccataatcca ggaggagcaa caacaacaac catgtgagtt atgtggatct caacaagcta 120

ctcaaagtgc ggtggcaatc ttgacagcag cacaatacct accatcaatg tgcggcttgt 180  
 accactcata ctacccaaat aatccatgca gcagcaatga cattagtggg gtttgcaatt 240  
 gaagaattgt gtctacctag ccgttatact cctataacgg tggttaagcaa taaagtacca 300  
 tacatt 306

<210> 11660  
 <211> 409  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 11660

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 ccattattcc acaatgctca cttgtccta gttccattat tccacagttc ctcccaccag 120  
 ttacttcaat ggccttcgaa caccagctg tgcaagccta taggctacaa caagcgattg 180  
 cggcgagcgt cttacaacaa ccaattgccc aattgcaaca acaatccttg gcacatctaa 240  
 caatacaaac catcgcaacg caacagcaac aacagttcct accagcactg agccacctag 300  
 ccatggtgaa ccctgtcgcc tacttgcaac agcagctgct tgcacccaac ccacttgctc 360  
 tagcanacgt agttgcaaac cagcaacaac aacaactgca acagtttct 409

<210> 11661  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-H10

<400> 11661

ccaagagtga tggatcatgag gactatggcc tccttgtttag tgagaaggca aggaaatacg 60  
 ccataatcaa ggagcttgat gagccagtta ccttgaagga tgggacagtg gtcctgcagt 120  
 ttgaagtga acttcagaat ggccttgaat ggggaggtgc ctacattaag tacatccgcc 180  
 ctcaggatgc tggatgggat gccaaaggagt ttgataatga gactccatac actattatgt 240  
 ttggtccaga taagtgtgga tcaaccaaca aggttcattt catccttaag cacaagaatc 300

ctaagactgg aaagtatgtt gagcatcatc tcaaattccc accatctgtc ccatatgaca 360  
agctctctca tgtctacacg gctatcttga agccagacaa tgaggtcaaa attttgg 418

<210> 11662  
<211> 411  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-H11

<400> 11662

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cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata 180  
gcttcagtat gtgaaaaccc agctcttcaa ccctataggc tccaacaagc aatcgagca 240  
agcaacatac ctttatcacc cttgtttcaa caatcgccag ccctatcttt ggggcagtca 300  
ttggtacaaa ccatcagggc acagcaactg cagcaactcg tgctacctgt gatcaaccaa 360  
gtagctctgg caaaccttcc tccctactct cagcaacaac aatttcttcc a 411

<210> 11663  
<211> 362  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-H2

<400> 11663

cacgagaaga gaagtttcac aacttctctc cccatggcac tcatcatcaa gagcacaatc 60  
atgcgctgtg ttcttggttc ttggagccat atcttacaca tccgtatatt gcatcggtgc 120  
aatcggcacg gaggacaccc ctgctcccaa gccaaaacct gggatgccgt gcttccacgc 180  
cggaacctca cagtaccctt gcactactga cgggtgccgc aagttatgcg agcaccaaca 240  
ccacaggagc gacatggcct actgtaaaag tatttcttca ggagaatgct gctgccccaa 300  
cgaaatgagg atgtggtcgt gtgtttgatg acgacaatta ttaaataaaa catgcatgat 360  
tg 362

<210> 11664

<211> 460  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-023-Q1-K1-H4  
  
 <400> 11664

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 ctccaacagg caatcgcagc aggcaccgta cgttaataac cctgggtttca acaatcgcca 120  
 gccctatctt tgggtgcagtc attggtacaa accatcaggg cacagcagct gcagcaactc 180  
 gtgctacctg tgatcaacca agtagctctg gcaaaccttt ctccctactc tcagcaacaa 240  
 caattttctt cattcaacca actgtctaca ttgaaccgtg ctgcttattt gcagcaacaa 300  
 ctattaccat tcagccagct agctactgcc tactctcagc aacaacaact tcttccattt 360  
 aaccaattgg ccgcactgaa ccccgctgct tatttgcagc agcaaatact actaccattt 420  
 agccagctag ctgcagcaag ccgtgcttnc ttcttgacac 460

<210> 11665  
 <211> 186  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-023-Q1-K1-H5  
  
 <400> 11665

taatataaca ccacctaaat acaattcact ctctccttat tataacaaga ctcacactac 60  
 taaaaccttg tcattacca acttaatacc attccatcac atctacttt atacagcatt 120  
 cttataataa caaacacca aacctaactc ccttttcaac atttcccaa ccacaatctc 180  
 aaatat 186

<210> 11666  
 <211> 335  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-023-Q1-K1-H6  
  
 <400> 11666

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ttttgcttcc ttatgtctct tgggtctttct gcaagtgttg ctaccgcaac cattttccca 120  
 caatgtctcac aagctcctat agcttccctt cttcccccat acctctcacc agcgggtgtct 180  
 tcaatgtgtg aaaacccaat tgttcaaccc tacaagatcc aacaggcaat cgcaacaggc 240  
 atcttaccat tatcaccctt gttccttcaa caaccgtcag ccctattaca gcagttacct 300  
 ttggtccatt tgggtggcaca aaacattaag gcaca 335

<210> 11667  
 <211> 415  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-023-Q1-K1-G11

<400> 11667  
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 gaggcacacag tgcagcccca cggcgacgcc ctactgtctg cctcagtgcc agtcgttgcg 120  
 gcagcagtgt tgccagcagc tcaggcaggt ggagccgcag caccggtacc aggcgatctt 180  
 cggcttggtc ctccagtcca tcctgcagca gcagccgcag agcggccagg tcgcggggct 240  
 gttggcggcg cagatagcgc agcaactgac ggcgatgtgc ggctgcagc agccgactcc 300  
 atgcccctac gctgctgccg gcggtgtccc ccaactgaaga aactatgtgc ttagtatatag 360  
 ccgctggcta gctagctagt tgagtcattt agcggcgatg attgagtaat aatgt 415

<210> 11668  
 <211> 407  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-E9

<400> 11668  
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 ctaccaagat attagccctc cttgcgcttc ttgccctttt agtgagcgcg acaaatgcgt 120  
 tcattattcc acagtgtca cttgtccta gtgccattat tccacagttc ctcccaccag 180  
 ttacttcaat gggcttcgaa catccagccg tgcaagccta caggctacaa ctagecgttg 240

cggcgagcgc cttacaacaa ccaattgccc aattgcaaca acaatccttg gcacatctaa 300  
 ccctacaaac cattgcaacg caacaacaac aacaacagtt tctgccatca ctgagccacc 360  
 tagccgtggt gaaccctgtc acctacttgc aacagcagct gcttgca 407

<210> 11669  
 <211> 399  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-F1

<400> 11669

ggagaaggag ctgaagcacc aagagctgta caagaacgag cagtaccgca tgaagctgca 60  
 caaatcgaac gagcggctgc tggcgctcgt caagtcgagc ctggacatcg tggaggccgt 120  
 ggggctcctg cagctggccc cgaagaaggt gacccccgc gtcacgggcg cgtttggctt 180  
 cgccagctcc ctcatcgctt gctaccagct gcttccaagc ccaccagcaa agcagagcaa 240  
 gtgaagactc cgactccaag cacttggttac caggaaaata atcccccgcg ataggtttga 300  
 tttggttgcc acatccccctt gtatggcaga ctagactaat atatgtaatc atcatcataa 360  
 taatttgata accatgccac tatggatagg tttggtcaa 399

<210> 11670  
 <211> 398  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-F10

<400> 11670

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 aagggagggt ctgccactgc gcaagtcaga gcatgcattc tacctggact gggctgtcca 120  
 ctctttcaga atcaccaact ggggagtcca ggacaccacc cagatccaca cccatatgtg 180  
 ctactccaac ttcaacgaca tcatccactc catcatcgac atggacgcag atgtgatcac 240  
 catcgagaac tcccgggtccg acgagaagct actgtccgtg ttccgcgagg gtgtgaagta 300  
 cggagctgga atcgggtccag gtgtctacga catccactcg cccaggatcc cctccaccga 360  
 ggagatcgcg gaccgcgtca acaagatgct cgccgtgc 398

<210> 11671  
<211> 407  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-023-Q1-K1-F12

<400> 11671

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cgggacgcgg cgagggttttag gcggggtttg ttttgtccct tccgtgcgat tctgctctcc 120  
gcgcgggagg caagtactga cggaagcgaa ggccaaggcg gaggaggggg tccccggcgg 180  
tggaagtgga acgcgccgat gcgcaagttt caggactcca tcaaggccct ccaggccgac 240  
atcgatcacg ccaatgcgat ggcgtcggaa ttcctgaggg actacgacgg ctcggtcatc 300  
cagatgcggg tggcgtagag cgccgtcgcg catttncctt tgcagtggac cgactgcaag 360  
ctcgccggcg cgctcggcct cctcaaggtt atgctataca aggtgtg 407

<210> 11672  
<211> 289  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-F2

<400> 11672

aaaaaaaaa aaaaaacaaa aaaaattata ataaaaaaaaa aaaaaaaaaa aaaaaaagtg 60  
aggtttaaaa aaaaaacaaa aataaaaaaa aaaaaaataa aaaataaaaa taataaaaaa 120  
aaaaaaaaa aaataaaaaa aggcaaaaat tttttaaaat tcaaaaattt agggcgccctt 180  
ctttttaagg aaaaaacttt tttttagggg accttaaatt aattaacttt tcattttttt 240  
aaaaaaattt taatttttaa aacccttttt taaaaacaat tttatttgg 289

<210> 11673  
<211> 391  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-F3

<400> 11673

atattattgt tcttagtcat cgcacaagac tcttgtcaac aagaccaaca acaggatgag 60  
gactaccgtg catgctgcgc tttgcattgt gcttgtgata atgtcttcaa cactgtcatc 120  
ttgcgaggac gatgagaagg tatctatcgc atgtgacaca ggatgcaatg ccgcgatctc 180  
ccgcctcaaa tgcttctga tggcctattc tgaagggaaa gtgttgggtca gcagcaactg 240  
cgaaacgccg accaggtgcg gctgcgtggt tgcgcacaaa caagatgcag cccttatcgc 300  
cggcgacgtt ggcaacaaaa agggatactg atggcaaacg tgtacttttt ggttgaataa 360  
tactgctaga attaatatgg gcaccaacga a 391

<210> 11674  
<211> 428  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-023-Q1-K1-F4  
<400> 11674

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ttgcttctct atgtctcttg gtctttctgc aagtgttgct accgcaacca ttttcccaca 120  
atgtcacaaa gctcttatag ctctcccttct tccccatac ctctcaccag cgggtgtcttc 180  
aatgtgtgaa aacccaattg ttcaacccta caggatccaa caggcaatcg caacaggcat 240  
cttaccatta tcacccttgt tccttcaaca accgtcagcc ctattacagc agttaccttt 300  
gggtccatttg gtggcacaaa acatcaaggc acaacaacta caacaacttg tgctagcaaa 360  
ccttgcgtga tactctcagc aacatcagtt tctttcattc aaccaactgg ctgcattgaa 420  
ctctgctg 428

<210> 11675  
<211> 402  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-023-Q1-K1-F5  
<400> 11675

agaacatgca aaactaccag aacagagatg ggctcctgc ccaaggtttc aatggccccc 60  
cacctccacc tggccagaac cagatgccat cccaccatag tcagggaac atgtctccgc 120



aaccaccaca tgctgggtgt ggccaaccaa actatcagcc ccaaagtcaa aaccacaga 180  
 cggtgtacaa ccctggcggt gctcctcact accagcaagg tgctgctcct ggctaccaag 240  
 gtggacctcc ggggtatcaa ggtgggttacc aagggaaccc aggcctgcc taccaaggtg 300  
 gtaacactgg ttatcaaggt ggcaaccac caccttcta ccaaggaagc aaccaccac 360  
 cttcttacca gggaagcagc ccaccaaggc caccaccttc ct 402

<210> 11676

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-F6

<400> 11676

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 tgagcagcaa tttggatttg ttcgcattgg tgccatatac ctactgtctg gttttgggtg 180  
 cagcgtgttg tctgcactct tcctacggaa cagctacatc tccgttgggtg cttctggagc 240  
 tctatttggc ctgctgggat ccatgcttct tgaactactc atgaactgga ctatatactc 300  
 caacaaggca gcagctataa taacactgtt gtttattatt gcaactcaatt tggctattgg 360  
 gatactacct caggttgaca actttgctca cattgggtgga ttcgcgacgg gtttcctctt 420  
 gggt 424

<210> 11677

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-F7

<400> 11677

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 cattggtggt gccatcttct agatttttta tgctttatac tgtaataata aagttctcat 120  
 actgatatgt gcaacttctc agtaataaaa gattagagat ctatatttta agttcaaaaa 180  
 aaaaaaaaaa aataaaaaaa aatcaaagta aaaaaaaaaa acaataaaaa aaataacaaa 240

aaaaaactaa aaaaaataaa aaaaaattac tttaggaaaa aaaaaaaagg ggtgcccttt 300  
 taagaggacc aagttttata acccgggctt tgcaacgtaa agattttttt tagggccccc 360  
 taaattcaaa tcacggg 377

<210> 11678  
 <211> 417  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-023-Q1-K1-F8  
 <400> 11678

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 aaggccaaga ctgatgccga cggcggcgag gagaacgaac agatcgacgg cgctctcgtc 120  
 ctctccatcg agaagctcca ggagatacag gacgagctcg agaaggtaaa tgaggaagca 180  
 agtgacaagg ttatggaggt ggagcagaaa tacagtgaga tccgcagacc tgtctatctc 240  
 aagaggggtg acattatcaa gaccatcccc gacttttggc tcacagcggt tatgagccat 300  
 cctctattaa gtgagcttct gactgaagag gaccagaaga tattcaagta cttagactcc 360  
 attgatgtgg atgattctga tgtaaggga agatactcca ttcattctaa cttctct 417

<210> 11679  
 <211> 415  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-023-Q1-K1-F9  
 <400> 11679

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 tcgacaatga cggccctcga cagcctaggc ctcgacatcg agcaagcggg catcagctgc 180  
 ttcaatggct ttgcgatgga cgtgttccga gctgagcagt gcgcgggatg tcctggaatg 240  
 gtgcctgaag aaattaaggc cgtgctgatg cacaccgncg gccttcacaa cgcaatgtag 300  
 ccggtccgaa nacgggccac cgncaggatg acgacgatcc tncnctttc tactaagggc 360

ttcgggttcgg aagcggcata agattaagct gtggtggtca ttggttttct gggga 415

<210> 11680

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-G10

<400> 11680

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tcattattcc acaatgctca cttgtctcaa gttccattat tacacagttc ctcccaccag 180

ttacttcaat gggcttcgaa caccagctg tgcaagccta taggctacaa caagcaattg 240

cggcgagcgt cttacaacaa ccaatttccc agttgcaaca acaattcctt ggcacatcta 300

acattacaaa ccacgcaac gcaacagcaa caacaattcc taccagcact gagccaccta 360

gccatggtga accctgccgc ctacttgcaa cagcagttgc ttgcatcaaa ccca 414

<210> 11681

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-023-Q1-K1-E8

<400> 11681

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ccatctctgt gtacaacagg acaacctcca aggtggacga gaccgtgcag cgtgccaaagg 120

cagaaggaaa cttcccgtc tacggcttcc atgacccgc gtcctttgtg aagtcattc 180

agaagccacg ggtggtgatc atgctcgtca aggccggcgc gccagttgac cagaccatcg 240

cgacgctcgc agctcacttg gagcagggcg actgcatcat cgatgggggg aacgagtgg 300

acgagaacac ggagaggagg gagaaggcca tggaggagcg cggcctnctg tatcttggca 360

tgggtgtctc tggaggaaag gagggtgccc gcaacggccc gtccttgatg 410

<210> 11682

<211> 359  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-023-Q1-K1-D12  
  
 <400> 11682  
  
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 cgcgctctgg agaagctcat cgcagcgtcc tacgctcccg ggactggctc cgccctcatg 180  
 ccggtggcag tcgccgggct gcctgcgcgg ctacaacacc ggcgctccgc tccgacgcta 240  
 cgaagggggc gagtcggaag acgatagcgt ccgcgagtac gatgggcggc acggcggccg 300  
 ggactacgct gtgcccagcc tgtttctaga tattttccgt gatccgctta gtgcgcgcgc 359

<210> 11683  
 <211> 261  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-023-Q1-K1-D3  
  
 <400> 11683  
  
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 agtgcccaga atgttgcaagg tctatcacac gacaatctat taacctggac tgcagtttta 120  
 gggactccat gacctttcac attcccatac gagtgccagt tgtactatag tgcaagctaa 180  
 atgcaatgaa cttgccgaat gttatcaagc aaccgactga gaaaacactg cagttgccta 240  
 ctttattgcc tacgaaggat a 261

<210> 11684  
 <211> 368  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-023-Q1-K1-D5  
  
 <400> 11684  
  
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gctacactcc agatcatgtc tagtacatth cttcttcttc gatgaagggtg cttgttgctc 180  
atcaagggga gtgggaagta gcagcacatc caccttcatt ctcataataa tgctgcccag 240  
acgcagccat gatttaatta gaaacttctt gacaaaggat gtttgttttt aactagtcgt 300  
gcgcactgat taattcagtt catgttggtta tgggtgtctt cccattgcta gcagattatt 360  
aatgtctt 368

<210> 11685  
<211> 420  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-023-Q1-K1-D6  
<400> 11685

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ttgagcctgt tcttagccct ctcttttgta gcagctatgt ttgccatagg ctctcatgct 120  
gatggagact gtgagaatga cctccaaagc ctgataagtg actgcaagac atacgtgatg 180  
ttcccagcta atccaaaggt cctccttcg gatgcttgct gtggtgtcat caagaaggca 240  
aacgtttctt gcttgtgctc caaggtcacc aaagaaactg agaaggttgt gtgcatggag 300  
aaggttgtgt atgttgctga gcagtgtgaag aggccatttg agcatggctt ccagtgcgga 360  
agctacaagg ttccagcaaa ctgatgatat cgcaagaggg aagcgcttga cgtagtcttt 420

<210> 11686  
<211> 374  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-023-Q1-K1-D7  
<400> 11686

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agacaaacca tataaaagat accaaactta catacacata catgcgacgt cctatctttt 120  
ggcatcctgg ctccctaact catttcactg gccgtctgtt tacaacttgg ggcccgtaaa 180  
tccccttccc tgcccaact taatcacctt cctgcccgtc caacttttgc ctgctcccat 240  
tttaaccac tggcccaac tgctcgctct tccaacgggt ttctcagcct taatgcccat 300

tgggaccccc cttgcaaccg gtcattcagc ctgactgctg attgggtcac gccctgtgtg 360  
gccgcttcac ttgc 374

<210> 11687  
<211> 425  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-023-Q1-K1-D8  
  
<400> 11687

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catggctgga cagccaagaa gagaagccag agccaagtga actgaaggct atagcctctg 120  
aaggggtaat cacttgctctg caagatgcca tagaatccct cgagcaaggc aatgatata 180  
agggagtgtc agagcagtgg agcttcgtcc cccatgttgt caacgagctg ttaaaactag 240  
atggaggcgg aaaaggtgcg gctctgcccc aagagcagct acgtcaacta gcaggcaagt 300  
gcaagaagat ctaccaggcc gagtttgctc gcgcggacat ggcgcacaag aacaagggtg 360  
ggcatcaaaa tgaccacat gtgaccgagc accgcaggaa gaccaatacc anatcagagg 420  
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<210> 11688  
<211> 418  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
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<400> 11688

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ctcagggacc tgcatgctg gcaggaggtc caggagagcc cgctcgacgc gtgccgccag 180  
gtcctcgacc ggcagctaac cggcggcggc gtcggcggcc cgttccggtg gggcacccgg 240  
ctccggatgc ggtgctgcca gcagcttcag gacgtgagcc gcgagtgccg ctgcgccgnc 300  
atccggagca tggtcagggg ctacgaggag gccatgccgn ctctggagaa aggcttgtgg 360

ccatatnnggc cggcagcagc agccgccgcc gcagggagga ggaggaggac aggggggc 418

<210> 11689

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-023-Q1-K1-E12

<400> 11689

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ggagtgggca caagactttc aggatcctga gattcatcac agacatgtgt ctactttgtt 120

tgggtctttat cctggacata ctatgtcact tgaggaaaca cctgacctct gcagagctgt 180

tgccaatagt ctttataaaa gaggtgacga aggccaggc tgggtctactt catggaaaat 240

ggtcctatgg gctcgccttc acaacagtga ccatgcatac aaaatgatac tgcagctaat 300

cacttttggtg gatccagaac atgaggtttc aagagaagga ggcctataca gcaatctgtt 360

cactgcacat ncacctttcc aaatngatgc aaattttggg tt 402

<210> 11690

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-E2

<400> 11690

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gcaattctga ttgaagcaac aatggttctc caacttgcta tctgtgccga ccctaattgct 120

acagcaacta ttcacctcac cgatttatcc cagccatatg ctacttatta tcccacgatt 180

tatgccacat ctgacaataa ttccaattcc aaaaattaag ccatctataa taataccac 240

<210> 11691

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-E3

<400> 11691

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aagatatattt ccatecttat gtccttgct ctttctgcat gtgttgctaa cgcgaccatt 120  
tttctcaat actcacaagc tcctatagct gcccttcttc ccccatacct tccatcaatg 180  
accgcttcag tatgtgaaaa ccagccctt caaccctaca ggctccaaca agcaatcgca 240  
acaagcaact tacctttatt acccctgttc tttcaacaat cgccagccct atctttggtg 300  
cagtcattgg taaaaccat cagggcacia cagctgcagc aactcgtgct accagtgatc 360  
agccaagtag ctctggcaaa cttttctccc tactctcagc aac 403

<210> 11692  
<211> 415  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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ctgatgcttg cagcatccat tctaaggctt tccaagattg tctcaacaac tatggcagcg 180  
agatcagcaa ttgccagttc tacctagaca tgctgaacga gtgccgccgt ggtgggtgtgt 240  
ctgcctaaac tgcctctggg attattcatg gattntcttt tcgtgatgtt atctcattaa 300  
ataagatacc gtgaaacttt tgtctccaca gcttgaagct gaacttcttg ggattaatac 360  
atattgttat cctatgctgt tggagcagac ttttgtctct ggatcatana tattt 415

<210> 11693  
<211> 421  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-023-Q1-K1-E5  
<400> 11693

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gacttccaag tggttaagttt attccagga ataacaacag ttatgacaaa tgtcgtcgaa 120



gatttgacct gggatgatgca gactatctta ggtatcatgg tatgcaagag tttgatcagg 180  
 caatgcaaca tcttgagcaa aaatatgaat tcatgacatc tgatcaccag tatatttccc 240  
 ggaaacatga ggaggataag gtgattgtgt tcgaaaaggg agatttggtta tttgtgttca 300  
 acttccactg caacaacagc tattttgact accgtattgg ttgtcgaaag cctgggggtgt 360  
 ataaggtggg cttggactcc gacgctggac tatttggtgg atttagcaag atccatcacg 420  
 c 421

<210> 11694  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-E6

<400> 11694

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 taccagctct aactcagcta gctgtggcaa accctgttgc ctacttgcaa cagctgcttc 180  
 cattcaacca actaactatg tcgaactctg ttgcgtacct acaacagcga caacagttac 240  
 ttaatccatt ggcagtggct aaccatttgg tcgctgcctt cctacagcag caacaattgc 300  
 tgccatacaa ccggttctct ttgatgaatc ctgtcttgtc gaggcagcaa cccatcgttg 360  
 gaagtgccat ctttttagatt acatatgaga tgtactcgat aatgggtgccc tcataccggc 420  
 atgtg 425

<210> 11695  
 <211> 289  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-B5

<400> 11695

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 acatgtatat acaaatacaa atgttaaaat ctgataatac atattaatag ttaaattgccg 120  
 aactttaaca cctcacagtg taactactag tccacctaac ctactattca aatagaaatg 180

cggtgtctttt attcatatta ttatgccagt tgacacaaat catatattct taaccgggtct 240  
attgaattta actactttta atataagata gaactgtatt atattactt 289

<210> 11696  
<211> 412  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-B6

<400> 11696

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ggtcctgtgt cgctttgtag ccctcgcggc tgtcgccttg ctctccggc ctggcccggc 120  
ccgtcaggct caaccgaagg ttttccgggt ggtccaacaa cccggccccg acttggtacg 180  
gcgagccac cggcgctgga agcgacggtg gtgcatgcgg gtaccagaac gccgtcgacc 240  
agccgccgtt ctggtccatg atcgccggcg gcagtcctc catcttcag aacggcaagg 300  
gctgcggcgc ctgctatcag gtgaaatgca cggggcacgc gtcgtgctcc ggcagcccgg 360  
tgaccgtggt cctaaccgac gagtgccccg gggcgcggtg cctggacgag cc 412

<210> 11697  
<211> 383  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-B7

<400> 11697

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cctggcatcc ccgacgacgt ggccgtggac tgcttgccgc ggcgtcccca cgcctccac 180  
cgcgcgatgc gccgggtctg ccgcggctgg cggagcgcc cgcggcgcc ggccttcg 240  
tcggcgcgcg ccgcggcggg cgccaacgag gacctcgtgt acctgatgca gttcggaac 300  
ccgtccggcg acgacgggac caaggacggc gacgacgggc ccggcagcac cccggcgtag 360  
ggcgtggcgg tgtacaacgt gac 383

<210> 11698

<211> 366  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-023-Q1-K1-B9  
  
 <400> 11698  
  
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 aaccttcagc aacctgtttg tccgtcgggc tggcccaggc agcacggagc tgaccgtgga 120  
 gggaaggcca tccgaccagc tgggcaggag aaacctcact gacagccccg tatttgacgg 180  
 ccgtggccct gacgccagcc tcgtggctcg cgtacaggga gtcgctaccc agatggggca 240  
 cgtgcgccag ttgtacaccg tcgtgttcca ggagaggccg ctcaagggtc ccacgctcgt 300  
 caccgaaggc gcgatgacag aagggtcaga cgagtgggag atctacggtg gaactggagt 360  
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<210> 11699  
 <211> 312  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-023-Q1-K1-C10  
  
 <400> 11699  
  
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 cgcttcaagg cggcctacac ccgcaacgac ctcgacgcct gggtcaccct cctctcacia 180  
 cttagggtcc atcttaccaa attccccaac ctttcggcct catttgagcc gacacctaaa 240  
 gccctggagg agcttaaact tgcaaggagc atttattagc cttcctgggtg ttttgagtgt 300  
 gaaacttgag ga 312

<210> 11700  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-023-Q1-K1-C11  
  
 <400> 11700

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 aaataaagat aggctgtgta tagatattct agagagggag atgatgcgga atcctatggc 180  
 ggtggaagat gccgtcacct cgcctttgtt ggcagatgat cttcacatga agcttctcta 240  
 cctggaaaac agagttgcat ttgctagatt gttctttcct gctgaagcca aggtcgccat 300  
 gcaaactgca caagcagaca ccacagaaga attcggcggg atagttgcag ttgcagcaag 360  
 cacttccggg aaactgaggg aggtggacct taatgagacg ccagtgcacac aaaaca 416

<210> 11701

<211> 334

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 11701

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 cactttccta gtgtgggttag gtaagatgct cccgnctgaa cttgtgaaca acattctttg 180  
 agtgagcttg gcaaactttc ctgacctatc aaagattgta ttgagagagt gtgacaatga 240  
 attgtcaaga aatttcatga aattactaag atccctgcgc gagaaggatc cttcctatca 300  
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<210> 11702

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-C2

<400> 11702

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 gagatgccgc agacgaagcc cgctccaaat caagaggtgg aggctaaggg tgcaaagcgg 180

ccgagcgcgc cgttccagcg cacctggctg attgacgacg acttccgcat cctggaggcc 240  
ctcgcctgcgc aacgcctgga gcacggcgcg ctgcctcaaa cggacgtgct ggccgacgcc 300  
ctcgcctggca agctcgacaa tagtggctgc agcctctccg atctcaagag gaaggtgaag 360  
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<210> 11703  
<211> 157  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-C3

<400> 11703

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gacctcacgc agatgacctt tggctacagc agggatgatg tggggaagtt catccccatt 120  
tatctggctc agggcattct tcagcatgac cccttcg 157

<210> 11704  
<211> 411  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-023-Q1-K1-C4

<400> 11704

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cagcaaactg tgactggaat aagccagatt tcatttagcg ctgatggaag tgtttcacca 180  
aagaagccat cgtcgatacc tgaggtggct aagcagcgag agcttagtgg caccctggaa 240  
gatgctgatg ctaaaatcaa taagcagctt tctgaagcca agaccaagga gcttagtggg 300  
agtgacatct ttggtccgcc ttctgagatt ccagcgagge cattggctgc tcgtaacatg 360  
gagctacaag gaaatgtcga tttttcactt tcacagcgaa gcgtnacac a 411

<210> 11705  
<211> 383  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-C5

<400> 11705

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cgccgtcctg ctctccgtgc tcgcggctgc cagcgcacgc gccgggacct cctgcgtgcc 180  
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ctgcggcatc gggccgcgcc tcccgtggcc ggagctgaag aggagatgct gccgggagct 300  
ggcggacatc ccggcgctact gccggtgcac ggcgctgagc atcctcatgg acggcgcgat 360  
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<210> 11706

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-023-Q1-K1-C6

<400> 11706

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accaagtagc tctggcaaac ctttctccct actctcagca acaacaattt cttccattca 180  
accaactgtc tacattgaac cgtgctgctt atttgcagca acaactatta ccattcagcc 240  
agctagctac tgcctactct cagcaacaac aacttcttcc atttaaccaa ttggccgcac 300  
tgaaccccgcc tgcttatttg cagcagcaaa tactactacc atttagccag ctagctgcag 360  
caagccgtgc ttccttcttg acacagcaac agttgctgcc tntctaccag cagtt 415

<210> 11707

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-C7

<400> 11707

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 ccaacaagaa caggttggat ttggaaatca agtagcacia cctgcacatg tggcttcaag 180  
 acaacctca tatgacaccc gctggagctc gagagattat ggatcaaccc aagggcaact 240  
 gggatatggt ggtcctcaag cacagtcata tgaatctcag ttaccacatc accaggggaag 300  
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<210> 11708  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-023-Q1-K1-C9  
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 aaaagtttct taaagcctga taatttcaaa tggatcagtt ttgcagtttt tccccgtaga 180  
 tacacaggat atatagctga tacggcctca tcgtttctag tttgtacatg ctattaagtt 240  
 ggggcatgag ggatgcaata ctagctaggt gaggttactt atatgtgggt atggtgttct 300  
 atagatggat cgatggtata catgttctga tttgttccc aacaccogac aagattttga 360  
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<210> 11709  
 <211> 383  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 gtctacactg aacctgctg cttatttgca gcaacaacta ttaccattta gccagctagc 120  
 tactgcctac tctcagcaac aacaacttct tccatttaac caattggccg cactgaacce 180

cgctgcttat ttgcagcagc aaatactact accatttagc cagctagctg cagcaaaccg 240  
 tgcttccttc ttgacacagc aacagttgct gcctttctac cagcagtttg cggctaaccc 300  
 cgcaaccctc ttacaactac aacaattggg gccctttgtc caacttgctt tgacagaccc 360  
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<210> 11710

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 11710

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 gtgatgttcc cagctaatec aaaggteccct ccttcggatg cttgctgtgg tgtcatcaag 180  
 aaggcaaacy tttcttgctt gtgctccaag gtcaccaaag aaactgagaa ggggtgtgtgc 240  
 atggagaagg ttgggtatgt tgctgaacaa tgtaagaagg catttgagca tggcttccaa 300  
 tgcggaagct aacaggttcc agcanactga tgatatcaca ngagggaagc gcttgacgta 360  
 gtcttttagat ttcaattgtt gcagccgatc aaccttctta gggttgtata atatgaagtc 420  
 aatgttg 427

<210> 11711

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-H1

<400> 11711

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 ttctttgcgt gcggttgatc tcgtcagatg cccggacatg gttactcaat ccgccatcga 180  
 attcgatggc agacaacgcc gggaataata tccgcaacgc caagctgaat cttcttgag 240



atgtgagcgc tggcaaatct agcttggatc ttcggtttgt taaaggacag tttgttgaat 300  
tccaggaatc aacaattgga gca 323

<210> 11712  
<211> 415  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-022-Q1-K1-H12  
  
<400> 11712

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gtaagcaaat ggtgctacct tcttggctat ctgaggaaga tgtcagttac cttgcaagtg 180  
tgtactcaaa aactggatct gctggtggag taaattacta tcgctgcttg gacctgaact 240  
gggaactgat ggcgccatgg acaggagcaa aggtgcaagt tccaaccaag ttcacgttg 300  
gggacggtga cctggcgtag catcacctg gagtgaagag gtacatccac aagggcgggt 360  
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<210> 11713  
<211> 323  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-022-Q1-K1-H3  
  
<400> 11713

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agatggtagt agcagttctg gttccaatat cgaggaggag gattaagtag gttagtgttc 240  
gaggtttggt ttagggaggt gtgaagagcc taaactctga tggttgtttg tgaggtgtgg 300  
tcgcaatagc tgcggcctgt ggt 323

<210> 11714  
<211> 334  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-H5

<400> 11714

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ccccaggagg ccagtggagg acacggcgcc gacatgagcc atcatcatca tctcagactc 180

agagcatgcc atggcacgca actgactgac tgactcggaa cacacacagc gacgcgcgcta 240

tactttatta agctttataa ttagctagct tcttgccggc ggcttcgagg gtggagcacc 300

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<210> 11715

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-H9

<400> 11715

cgttcgctca tgctccatt ccacgtcaga ttcagtatca tcactttctc ggggggtgggg 60

accaatatgt gagcccttct tatagctcct tgctcttatg tgtatgtact tgctaattcg 120

acagttgtct ctcatgtctc acagactacc aactgggtcca caacttctca tatacctacc 180

atcaatgatc tccattacaa tatgataacc catctgtaca cgcatatatg 230

<210> 11716

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-A1

<400> 11716

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ggatcttcca aagcttaatg aatatctagc tgttcacgga gaagattgtg cagctagatg 120

tcaagcagtg tcttctgtta agtatcctat ttatgatcaa actgtgtacc ttaacgatta 180

tcataagaag gtgttgaagg atcaatatgg aattgaacct ttcacattcc accaacatat 240

tgggtgaggct gttttcattc cagctgggtg tcctttccaa ttgaaaaacc ttcagtccac 300  
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 ccaag 365

<210> 11717  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-023-Q1-K1-A11  
  
 <400> 11717

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 ttcttcgctg ctttgatggc gagaatgcag gaccttgtgc gaaggactgc aagctggcta 120  
 atcttgtctg cttggaggaa gttggatgct atcgaggaga aggatggagt gcttgatgag 180  
 taagacgggt ttctgggtgc gatttgcttc tgagtttttt tctttntata tcgttgcgat 240  
 ctctggttg tcgtttggtt agcaggcaag ccaggctatt agtccgaaga atgtcgtcta 300  
 taaacatgtg ttctacgtt gccacatgct gagtcaatct gtatacagct agctctaggt 360  
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<210> 11718  
 <211> 266  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-023-Q1-K1-A12  
  
 <400> 11718

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 tcgctctcct cacgtgccta gctctgtcag ctgccagctc ctctgcaatg cagatgccct 180  
 gccctgcac ggggctgcaa ggcttggacg gcgctggcgc tcggctgacc acgatgatgg 240  
 gcgcctgctg gctgtacccc tacgag 266

<210> 11719  
 <211> 366  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-023-Q1-K1-A3

<400> 11719

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acctcatcgc cactcgggtg cccgacggcg gcgagttccg cgtgcgtcgg cgattccgtg 180
acgtcgtggc gctcgcgcac cgcctctcgg agaccacccg cggcctcttt gtaccggcgc 240
ggcccacaaa gagcatcgtc gagggccagg tcatgcagcg gcacgacttc gtgaaccagc 300
ggtgcgtcac gctccagcgc tacctccgcc gntcgcgcgc gcattccgtc gtcggccaca 360
accca 366
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<210> 11720  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-A8

<400> 11720

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gttggtctgc aagggttctgg taaaactact acttgtacaa aatatgctta ttatcatcag 120
aagaaaggat tcaaaccagc actggtttgt gctgatacat ttagggctgg tgcttttgat 180
cagttaaagc aaaatgcaac gaaggccaag attccctttt atggaagcta catggaatct 240
gatccagtga aaattgctgt tgaagggtgt gagaggttca agaaagaaaa ctgtgatctc 300
atcattgtgg acacaagtgg aaggcacaaa caagaagcag cactctttga agaatgcgg 360
caagtttcgg aagcaacaaa accagacctg gtgatttttg tgatggacag tagtattggt 420
caggct 426
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<210> 11721  
 <211> 344  
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-023-Q1-K1-A9

<400> 11721

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gaccaaagaa gaagatgaag gtccgtgcgg cggatgaagcg cctgtgccgg ttctgcaagg 120

tgggtgaatcg ccgggggaatc gtcttcgtcc aatgcacgga caacgcccaag cacaagcagc 180

gccagagctt ctacaccatc gccgaaacag ccgtcgactc gtgcgttcac ctgccttcga 240

cgncggccgc tagcggtttc cgccttcgcc gcagcgttcg cagaggcttt caaagtggcg 300

agacatgaga tgtctatgaa gttcaattgg cggctggggt taac 344

<210> 11722

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-B10

<400> 11722

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tctggaattg gtgtttgcat tgagttttgg aagatcggaa aggcgatgca tattgaagtc 120

gatagaagtg gaaaaattcc catgttgagg ttccgagatc gtgaatcata tgcacagaat 180

aagaccaaag agtccgatgc tattgcaatg aagtacctca cctatggcct ctttcctcct 240

ggggatccgg ttcttctatc tattcactaa aggtttgaaa gcacaagaac ttggacttat 300

ggatactttc ttctaattgac aagttggggg aacatgtttg gttccatcat gatgtgcccc 360

caattaatta tcaactacaa gctgaagtct ggtgctc 397

<210> 11723

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-B11

<400> 11723

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gccgaagttg tgggtgcttcc ctgcgcgacg ctttcgaacc gtttttatta tgtcgccatt 120  
 ttctttccct gtgccaccac cctgatgaat gaagaaggcc tgagctaggc gaacatctgc 180  
 aggctgcagc agtatgccaa atcattatca ttaccgttac cattaccaat tggagattgc 240  
 cgtaaatttc cgcgattatg ggaactcatt tacctgatta tctgatacgt ttgaaattaa 300  
 aggtccgccca ttagaatg 318

<210> 11724  
 <211> 400  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-B3

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 gtgccgaagt ttagcacctg tcagtgtttg gaccagtga cctaaccaac tagtgaaata 180  
 gtgtcgctg tcttggatcc agatgggtgat gcgagttgac acaaattgatt taccctggtt 240  
 cgggctatga agggccctac tttcagcaga ggaaggatgt ggattatatt actcgcacca 300  
 aaagtgtca cagtaggggt tacaagcacg acgggagagg gtaggacct aagtcctga 360  
 gagtgattga gtcaagtgcc aataccgtat gagagagaat 400

<210> 11725  
 <211> 307  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-G9

<400> 11725  
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 tgcttatcag agttactcaa gaggcctcgt cattgccaaa gtcgatcatt tggcagcacc 180  
 tgaaccgta cttcaaaggg aacaccatga accagcacia ctgaatggaa ttgtacctgc 240  
 atcagcttta cctctacagc aactgctaca gcatgatgcg ccagtatcac gtgcatcagc 300

aagtgct

307

<210> 11726  
<211> 345  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-E9

<400> 11726

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cttatatctg tttcaccaca tacatcatcc aaagattaca agatacatctt ccaaattcta 180  
acaaatttac aaactgggag ctcattatac agtatccaaa cttacctacg cttgcatgca 240  
actctataac ttttctatag ctttaacttat atcaaatacg ctggccccga tagtacttcc 300  
tcatgactgc taaaacttta tcgataccca gcttcagcct cttac 345

<210> 11727  
<211> 325  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-F1

<400> 11727

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gccccctggc atcggcagcg cccaggaccc cggcacttgc gccgttcggc tggtcgtctt 180  
gcttacaggg ctgcgtaacg gccagtgcac catcgaggga ctctctgctg ggttcattgt 240  
cctgcttggc ggcattggca tcactctgct cgacctcgcc gtcaaccgca cgaggccccg 300  
gagccttcgc gtctcgtttg gaagc 325

<210> 11728  
<211> 408  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-F10

<400> 11728

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tgactattgt ccaatcacgt tcgatacaac caagtaactg ccacgtattg cagcaacaat 180

gctgtcatga tottaggcac attgagccac aatacattca ccaagcaatc tacaacatgg 240

atcaatacat aatccacgag gagcaacagc aacaaccatg tgagttatgt ggatctcaac 300

aagctactca tagtgctgtg gcaatcttga cagcagcaca atacctacca tcaatgtgcg 360

gcttgtagca ctcatactac caaaattatc catgcagcag ctatgaca 408

<210> 11729

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-F11

<400> 11729

cccacgcgtc cgcccacgag ttgcccacg cgtccgcca cgcgccgag gacgcgggag 60

tttgagcatt cagaaacaca ccaagcgaag cacattagca acaacctaac aacaatggct 120

accaagatat tatccctcct tgcgcttctt gcgctttttg cgagcgcaac aaatgcgttc 180

attattccac aatgctcact tgctccaagt tgcattatta cacagttcct tccaccagtt 240

acttcaatgg gcttcgaaca ccagctgtg caagcctata ggctacaaca agcaattgct 300

gcgagcgat tacaacaacc aatttcccag ttgcaacaac aatccttggc acatctaaca 360

atacaaacca tcgcaacgca tcagcaacaa caatttctac cagcac 406

<210> 11730

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-F2

<400> 11730

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tccatcctta tgctccttgc tatatatgca tgtgttgcta acgcgaccat ttttctcaa 120



tactcacaag ctccatatagc tgcccttctt tccctataacc tatcattaat gaccgcttca 180  
 atatgtgaaa acccagccct tcaaccctac aggctccatc atgcatttgc aacaagcaac 240  
 ttacctttat caccctgtt attacaacaa tcgccagccc tatcgttggt gcagtcattg 300  
 gtacaaacca ttagggcaca acag 324

<210> 11731  
 <211> 323  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-F3

<400> 11731

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 attttatttg caagacatca agaattctgg aagctagtag attgatcaaa aatttacaca 180  
 taggcacttg tgggtgtgtg ctgaaaatga cattgatgaa agacctagtt tctcaagact 240  
 atcataccaa gatgatacat gtattggttc tgaagtgcaa gttaatgaag gagatatgga 300  
 gataactgga catcaggatg ctg 323

<210> 11732  
 <211> 324  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-F4

<400> 11732

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 cctgcagcac aacttctga cgggcacgc gatatcgtct gaatcgtcag ttcctacaa 180  
 cgtgtcgctc tagcggaatg acaactgcag ggtgcacgc gtgtacacgc agagcccgat 240  
 caaggcctgg tcgcagaaca cgcgtgcggc gtaccagtgc ccggagtgga ggggctgagc 300  
 ctgatgtcgg ggtgagcttg atcg 324

<210> 11733  
 <211> 64  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-022-Q1-K1-F7  
  
 <400> 11733  
  
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 aaaa 64

<210> 11734  
 <211> 450  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-022-Q1-K1-F9  
  
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 tgatgactgg gtgcttaata cagacaaact ggcagaactg aagaagtttg ctgataatga 180  
 agatctgcat tcagagtggc gtgctgctaa gaaggctaac aaaatgaagg ttgtttctct 240  
 tataagggag aagacaggat atattgtcag tccagatgca atgtttgatg tgcaggtgaa 300  
 aaggatacat gaatataagc ggcagctgct aaatatcctt ggaattgtct accgctacaa 360  
 gaagatgaaa gaaatgagca cagaagaaag agcaaagagc tttgttccaa gggatatgcat 420  
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<210> 11735  
 <211> 138  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-022-Q1-K1-G10  
  
 <400> 11735  
  
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 caggacatcc ggtctagcag ttccatgctt acaaacgaag tcatgctact tcattctctt 120  
 tttatcgtca ctctaaa 138

<210> 11736  
 <211> 331  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-022-Q1-K1-G11  
  
 <400> 11736  
  
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 gtcgtcaaga cccctgggtg caagctcgtg taccagtaca ccaagaagag agccagcggg 180  
 cccaagtgtc ccgtgaccgg gaagaagatc cagggcattc cccatctgag gccagctgag 240  
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 ctatctggaa ctgcagttag agaaaggatc a 331

<210> 11737  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-022-Q1-K1-G12  
  
 <400> 11737  
  
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 taccttccat caatgatagc ttcagtatgt gaaaaccag ctcttcagcc ctataggctc 240  
 caacaagcaa tcgcagcaag caacatacct ttatcaccct tgctgtttca acaatcgtca 300  
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 caa 423

<210> 11738  
 <211> 321  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-G3

<400> 11738

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ccatgttcac gtggcttcct ctgggcgccg cgctagagat agtgcggctg tccgtagcgc 180  
tagcgtgtgc gtgcaaggtc tgcacggagc tgctggtggg cactggacag tcagggcgcc 240  
tccgaggctc actcccgacg cctgggaaca gcggcggtc cggacagctg tacgctgca 300  
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<210> 11739

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-E6

<400> 11739

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ccggggagct gctctgcgc gcggttgagc gccggtcact gtggtgttag cgctgtgaag 180  
cttattgcta tcataggcgg agttcggatg cctactcagc gtgatcctgt ccttcgtcgg 240  
ctactctggc ggctccaagt ccaaccgca gtaccgcaac ctagccgacc acgccgagt 300  
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<210> 11740

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-G8

<400> 11740

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gcgcgggctt taaggggggtc tagatgttcg accacaactg cgctcatgtg tgcttgcagg 240  
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<210> 11741  
 <211> 139  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-C7

<400> 11741

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<210> 11742  
 <211> 325  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-C8

<400> 11742

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 gaaggtttga ttctatgtga caaagatagg atgataggac gtcattgtat ttgcttagat 180  
 tcattggtgg taatatgtac ccgactaggt agagacatgt aggagattgt cgttagcaaa 240  
 agctataagt tggctgaaaa ggtttcatct ataatggaag agacacaacc tcttcttaca 300  
 cggattgagg atttagctga agaaa 325

<210> 11743  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-C9

<400> 11743

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 tttcttggca ctatacaggg aacttgacct tcaaacatct tttgaaggte tgaagatgga 180  
 aatataatct tctgctgaac tgacagaaac tttgtgaatt gcagagcaac ccgaattgaa 240  
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 catggaatta tgacaactgt atctgccatg agctgtgtaa ttgcagttct tacattttac 360  
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 cctgcaattg ttatgtacga ttct 444

<210> 11744  
 <211> 397  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-022-Q1-K1-D10  
 <400> 11744

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 cttctaccgc gtctacggga acgtctcgct ggcctggaac atcgccctca tgttcgtcac 360  
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<210> 11745  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-022-Q1-K1-D11  
 <400> 11745

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aaaagggtaa accttatgac catgccccaa tatctactgc aaatgccaat aattcttaag 180  
catcaacaac cttaaactgcc actocagaca ctcaggcttc cacactatca tatgcacccat 240  
ccacattcac cttgcttgat caagctgcat tagcatcagc aagggtcatca gtagattggt 300  
ggagtgagct tgaagatggt aaaatccatg atgagaatag tagctaataa aattgatggc 360  
atgatgtata cccatttgat gacaagccat cc 392

<210> 11746  
<211> 321  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-D2

<400> 11746

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ccgctcgacg ccgccgtctt gcgctcatct agtgtctaca ctcccggcga cgatggcgga 120  
ggacttggtt ttggacacgg cgatccgaga ctgggtgctg atccaggtct acgtgggttat 180  
ggtcctcatc ggcgtactcc agtactgaag tctgcaagct catgcgctgg gaggcgacct 240  
ctccgtgtac cgaccccaag ctcgtttagg aagggcaggt ggtcatcagg gcgaggaacc 300  
tgaggaccaa cgcacagttc a 321

<210> 11747  
<211> 142  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-D3

<400> 11747

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gaacgtgacg tgggcacagg ctcattaggg atcgtcttcc aggctaagtg tctggaaaca 120  
ggagagacct tcgcatcaa ga 142

<210> 11748  
<211> 325  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-D4

<400> 11748

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aattgccc aa ttgcaacatc aagcagtggc acatctaaca atacaaacca tcgcatcgca 120  
acagcaacaa cagtgcctac cagcactgat ccaa atgtgc aatggtgccc ttgttgacta 180  
attgcagcgt gtgctgattg gatacaactg acttgctaga gcaa acgtag tttcaaacca 240  
gcaacaacaa caactgcaac agtttcggac agcgcttagt caactagcca tggatgaaccc 300  
tgccgtctac ctacaacagc aacaa 325

<210> 11749

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-D8

<400> 11749

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gtctagcagc agccaccggc gcctcatcct cgcagccgcc gtcctgctct ccgtgctcgc 120  
ggctgccagc gccagcgccg ggacctgctg catgccggga tggaccatcc cgcacaaccc 180  
gtccccgagc tgccgctggg acgtgaccag ccggacctgc agcatcgggc cgcgcctccc 240  
gtggccggag ctgaagagga gatgctgccg ggagctggcg gtcaccccg cgtactgccg 300  
gtgcacggcg ctgagcatcc tcattgga 327

<210> 11750

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-D9

<400> 11750

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aacaacaaat ggtgatgcca ggccatcgtg agtcaaactt gcagaaggaa cttaaccgat 120  
acatccccac tgccgctgca tttggtgggt tatgcattgt cgcattgacc gtcctggctg 180



atttcattggt tgcgattggt tcaggaactg ctatattgct cgctgtgaca atcatataacc 240  
aataacttcga aacctttgag aacgaaaggg cgactgagct tggtttctat ggtttttgat 300  
cattagctgt ggaaccttaa ctagtctata gatgaatttt cttgtcag 348

<210> 11751  
<211> 315  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-022-Q1-K1-E1

<400> 11751

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caggtccgag gattgaaggt agtaagcttc caactagata gcttgattgc ggagccgtag 120  
cgagaaagca tttataggaa aactgttgaa gagctatttt ctttaagtac agtgtatttt 180  
gatgaatang aattagattt gaagattcca gctgatctta taagaagttc tgagaatgtc 240  
aattcaattg tacaggataa tggaagtgtt aggttgagga actatcttgt ccaggctatt 300  
gcgttgcttc ggcag 315

<210> 11752  
<211> 239  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-E10

<400> 11752

cccacgcgtc cgcaatactt cgcttttgaa atcatgctac gcttgcagaa gggtcagcgt 60  
ctggatcctc gtactgttta ctgaaaacct aaaagatgca cgcaatgccg aacacgatct 120  
ttccatatgc atgtccattc acgggtctca gatgattatt gaaacgccag atttataagt 180  
caccctagag cgcgcatgca tctagttagg agaccgcaaa ggacagggca ccattttat 239

<210> 11753  
<211> 325  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-E3

<400> 11753

eggacgcgtg ggctgctgca ggccttcgc cgtcgccgcc gcatctaacg cagttccgtg 60  
cgccgcagcc cgaggcaaga gggatctcca gaacgacatt gatctgctca acccgccggc 120  
agaactcgag aagctcaagc acaagaaaga gagactcgtc cgagcggcca acttcttctt 180  
gatggatgtt aagtgccagg ggtgcttcgg cataaccgct gagttcagcc actcccagga 240  
ctgttggtgt gtgccctggc tgccaaactg tcctctgcca acccacagga ggaaaggcaa 300  
ggctcactga gggctgctct ttccg 325

<210> 11754

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-E4

<400> 11754

gaggaatatt ccgcatattg gattgggccg atattgttaa tgcgcatata gtacctggac 60  
ctggaatcgt agatggcttg gagctgaagg gtttgcttaa aggaagaggg ctacttcggc 120  
tcgctgagat gagctctgcc ggcaaccttg cccatgggtga tgacactgct gctgccgtaa 180  
agattgctga gcaacattct gattttgata tgggataaat atcagtaaat actgagtctt 240  
ggtcagtaaa accatcaagc cctgcattta tccatgccac gcctggagtt cagatggctg 300  
caggaggaga tgatcttggg caacaat 327

<210> 11755

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-E5

<400> 11755

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tatccataat tgcgcttaat gcactttttg cgagcgcaac aaatgcgtcc attatgacca 120  
caatgctcac ttgctcctag ttccattatt acacagttcc attcaccaga tacttaaatg 180

acctaagaac actcaactgt gcaagccgat aggtacaac aagcgagtga agcgatcgtc 240  
 ttacaacaac caattgccta attgcaacaa caatccttgg cgcatctaac aatacaaacc 300  
 atcgcaacgc aacagcaaca ac 322

<210> 11756  
 <211> 323  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-C6

<400> 11756

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 gccttcttat gtccttggga ctatctgcaa gtgctgctac ggcgaccatt ttatctcaat 120  
 gctcacaagc tcctatagct tccattattc caacgatcct atcatcaaag aaatattcaa 180  
 tatggtaaaa tcccaatttt taactctaca tgatatttca agcattagca tcaagcatct 240  
 tacctttatc actcctgggt cgcttcaaca atcatcagcc ctattacagc agttaccttt 300  
 ggtgcattta ttggcacaaa aca 323

<210> 11757  
 <211> 322  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-A4

<400> 11757

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 tcctatagct gaccttctta ctccatacct tccatcaatg accgcttcag tatgtgaaaa 120  
 cccagccctt caaccctaca ggctccaaca agcaatcgca acgagcatct tacctttatc 180  
 acccctgttc tttcaacaat cgccagccct atcttttagtg caggcattgg tgcaaaccat 240  
 cagggcacia cagctgcagc tactcgtgct accagtgate agccaagtag ctctggcaaa 300  
 ctttctccc tactctcagc aa 322

<210> 11758  
 <211> 319  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-A5

<400> 11758

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ggcgccgctt taagggaag ctcttactat gctgatctcc ttgatttggt caatgacgtt 120

gagttcaaga cagcttcagg tcagctgctg gaccttatca ctacgctttg tgggtaaatac 180

gatctaaca gtgataacat aacagttcac ggtcgaattg ggcattacat gacagtctat 240

tattcattgt atctggcagt tgcattgtcc ctgctgctct atagcgagaa tttggacaat 300

tatgggtgatg tacagaaca 319

<210> 11759

<211> 108

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-A8

<400> 11759

cttgacgagc tctccacgct cctccaagtt cctcttgtaa tatgaactgt gaacagggga 60

agcgaagtca ttgctgcatt cttacctgtg aacgactgga ctgccttt 108

<210> 11760

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-A9

<400> 11760

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ccgacaagct gtgcgaccag gtgtcggacg ccgtgcttga cgcattgcctc gcgcaggacc 180

ccgacagcaa ggtggcctgc gagacctgca ccaagaccaa catggtgatg gtgttcggcg 240

agatcacgac caaggcgacc gtggactacg agaagatcgt gcgcgacacc tgccgcgaga 300

tcgggttc 308

<210> 11761  
 <211> 321  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-022-Q1-K1-B1

<400> 11761

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 tgggtgctac tggtagggag aataagacat catggcctga ggtggtgggc atgtgcatca 120  
 aggaggcaag agagatcatt cttaaagaca tgcccaacgc tgacattcag gttctaccga 180  
 taggctcgct tgagacccaa gactttcagc ctgatcggtt tagcatagtg gatgatattg 240  
 ttggctagac tccaacagtt gngtgacaag gatatgcctt atgtatagge caaataaaca 300  
 aagcctactt ttatgtatca t 321

<210> 11762  
 <211> 402  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-022-Q1-K1-B10

<400> 11762

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 ggtgttttgg atgggaagta tgatgacctc cctgagcagt cattctacat ggttggtggc 120  
 attgaggaag tcattgctaa ggctgagaaa attgccaagg agtctgcttc ataaggaggc 180  
 ttcttgcttg ttcaaccctg tacaagttcc atttttggat tttaagcgtt tatttatgct 240  
 tttcccagtt aggcattgacg agctggagag tccatctcct gctgagagat gtttggttta 300  
 cccttctttg cttncctcaa cttacacca aattagcaac tgcagtgacg ttggttttgg 360  
 ctgcacccaa acttccttga ctgaagaaac ttgtggcctg tg 402

<210> 11763  
 <211> 411  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-B11

<400> 11763

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actagtacta ccattcagcc agccagctgc tgcctacccc cagcaatttc ttccattcaa 120  
ccaactagca gcattgaact ctcttgcta tgtacagcag caacaactac taccattcag 180  
ccagctagct gctgtgagcc ctgctgcctt cttgacacag caacaattgt tgtcgttcta 240  
cctgcacgct gcgcctaacg ttggcaccct cttacaactg caacaattgc tgccattcaa 300  
ccaacttgct ttgacaaacc cagcagcgtt ctaccaacaa cccatcattg gtggtgcctt 360  
cttttagatt gcttatgagt tatagttcaa taataaagtg tttttgatga a 411

<210> 11764

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-B12

<400> 11764

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cctctctccg ctcccgcctc tgctccgcgc cgccgtcgcc gcaccatcac ctccagccca 120  
gccgcggcta ccacgtcgag ctcggcgctc gcgagaaagc gcttttggag gaggatgttg 180  
ctttgaagag gttcaaata tacaagaaca gtgtgaaaca ggtctccaag attgggaatg 240  
ttctcacttt agctgttgta ttcggttgta gctacgagct tggtttggtg gcggcaagca 300  
tgaagtgaag gaaaacacag ccattattcc gggaagtgat ccatcagcgt agactgtcat 360  
tctatcacct cgtgttttta gcctgtctgt ctctctctta ttttgctgtg caccatgtat 420  
aaaataaaac taaacta 437

<210> 11765

<211> 114

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-B2

<400> 11765

agcacgcgtc cgcgcaaatt gcaccaagaa atccatcgag aggccatcga caggggagtg 60

agaggcgctg tcgtctagca gcatgcctcc ggcggtcat cctcgcaacc gccg 114

<210> 11766  
<211> 318  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-B3

<400> 11766

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tctaggccta cgagacgctt agcgaccgag cgccctaccc ggccagcttc atgctctgcc 120

agctcaccgg ctctacgcc ttcgtgctgt tcgacaagtc catccactac atgatagtct 180

gatgagccc ctatgacaga ttgccgaatt tctgggagat caacgcataa tgctgcatcg 240

ccttatacga cgacatcgac atactcaaag gctcatgcgg cagtgcgctc gcgcggttcc 300

cgcaaggctg cttctact 318

<210> 11767  
<211> 54  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-B4

<400> 11767

cgcagccgcc gtctgtctct ccgtgctcgc ggctgccagc gccagcgccg ggac 54

<210> 11768  
<211> 324  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-B7

<400> 11768

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atattggcat aggaacctag gaaccaagtg tcgtctccat gagctttcaa acaagcgaag 120

gatctctatt gctggtgctt ccaaactgtt gactaacatc ctttattcat atcacgggat 180

gggactgtag ataggtacaa tgatcgctgg atgggatgag aaggatcctg gctaggacta 240  
 tgttgacaga gaggggtgcgc ggctcgctggg gaacaggttg tctgttggct ctggttcact 300  
 gtatgcttat ggtatcttgg atga 324

<210> 11769  
 <211> 317  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-B8

<400> 11769

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 tgcctattat ccagtttagt ctagggtaac tggtaaagtt gctcacccca gctcatgctc 120  
 aggaagtgca cacctccctg aggtattggc taaatgccaa tatcatccct gactgagctg 180  
 catctactat tatcattttc ttaagcagtg taactactga taactgtaaa gagctttcat 240  
 cacattctga tgaagatgaa taaatgccag aggagcttct ttgaagcctg acttcatcga 300  
 catcatcaac gcgggtca 317

<210> 11770  
 <211> 284  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-B9

<400> 11770

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 taactctcaa ggccaagccg aataagtaca ctgccaacga catcgactg aagatccact 120  
 cttcttccac taacctgtac tgcttgtacg ctctcacgc cgacctgact gacgcaatac 180  
 aacgccggtc atgccaagcc ttcgtgccac ttcttacgca ccctgatcc cgacatcaag 240  
 tccatgcaga tccaccacga cgcgcgccac cccaaactcc cctt 284

<210> 11771  
 <211> 358  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3059-022-Q1-K1-C1

<400> 11771

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gacatctcga agcccacgcc ggtggcgtgc ggcgacgagg ccgcggcggc tgccaagggg 180  
aggatcggta gagtgttctt ggagctagat caggactacc tgcattgtcat tcacgacctg 240  
aagctacaga gccattagaa gactgacatc tctcaccatt attgaggccc aactgaatgg 300  
cctcaactcc cgagttacaa tgctcaggga agagttgcag ttgcttcaag agcctggc 358

<210> 11772

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-A3

<400> 11772

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tggcgaccaa gatattttcc ctctttatgc tccttgctct ttctacatgt gttgctaacg 120  
cgacaatttt ccctcaatgc tcacaagctc ctatagcttc cattcttccc acatacctta 180  
catcaattat agcttcaata tgtgaaaacc cagctcttca accatatagg cttcaacaag 240  
caatcgcagc aagcaacata cctttatcgc ccttggtggt tcaacaatcg ccagccctat 300  
ctttggtgca gtcattggta caaacatca gggcacaaca gctgcagcaa ctctgctac 360  
ctttgatca 369

<210> 11773

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-C11

<400> 11773

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tccggcggaa agcgacagag gggagatgat cgtggcagta gccgcagggg ctggcaccgt 180  
 ccgtattgat gtttgccatg ccgctgattt gcaattagaa gttagaacct agcaattagc 240  
 atatttatcg cagtaccatg ctggaaactg tactttgaat tatttgtttt tcctgtgtgc 300  
 ttcgtaacag gcctgcccta aaaagaatga tagtaccgca aggggcaa at gtagtggtaa 360  
 tataatctat acatttgtaa ccatcttcat cctgcgttga ccgtcttagg ttattaaaat 420  
 aaatatattt cctccgttct tttt 444

<210> 11774  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-C12

<400> 11774  
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 gcttggcaca tgttcattgc ctggagctgc aatctatggc acttcaacta ggagatttgg 180  
 aggtttggag tttcagcaac ataaagttaa tcacatctca tttggtcgga aagcgtctgt 240  
 taaagcaaca ttgaaaactg tgagatgcaa tgccactcaa acacaaagcg tccaaaagaa 300  
 atcttcaagt gcaactattc agcgtgataa gaaaggaaat gtacaagggc caaaactgga 360  
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 cgggggaa 428

<210> 11775  
 <211> 128  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-C2

<400> 11775  
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 tttccaac 128

<210> 11776  
 <211> 325  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-022-Q1-K1-C4  
  
 <400> 11776  
  
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 gttgcataaa tagtatatac cgtttggcgt aaaacgttaa gtcatttgtgt gtaaatagtg 180  
 tattatggat attagattga cattgacatc gccataatat cgggactgtt tcggaataa 240  
 tgggtagacc ctgtaaactg ggatgcagtt acttgtatag tatacgtgat ttcctttcat 300  
 ccgaaaaaac accacaaagc ctgca 325

<210> 11777  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-021-Q1-K1-H10  
  
 <400> 11777  
  
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 aatgttacat tattaggaag cggatgaata tgcattgcagt tttgttggtt ggaactagat 120  
 gtgtatggaa gaaacatgat cttttttctc ggagggttaa aattatatat ttagggtag 180  
 tttgaaaact tcatttttcc aagggtttc tattttccct aggaaaaatg aactggtttc 240  
 ccaaaccagc ccatgatgca tttcccgccc tgagtatcgg gcctttttct ctgtccaaaa 300  
 aaaaaaaca aaaaataaag tttttttt 328

<210> 11778  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-021-Q1-K1-H11  
  
 <400> 11778

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 ttatcgccct tgttgtgtca acaatcgcca gccctatctt tgggtgcagtc attggtacaa 180  
 accatcaggg cacaacagct gcagcaactc gtgctacctg tgatcaacca agtagctctg 240  
 gcaaaccctt ctcctactc tccgcaacaa caatttcttc cattcaacca actgtctaca 300  
 ctgaaccctg ctgcttattt gcagcaacaa ctattaccat ttagccagct agctactgcc 360  
 tactctcaac aacaacaact tcttccattt aaccaattgg ccgcactgaa ccccgctgct 420  
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<210> 11779  
 <211> 369  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-021-Q1-K1-H12  
 <400> 11779

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 gctcgcggct gccagcgcca ggcgccggac ctctgcgtg ccgggggtggg ccatcccgca 180  
 caaccgctc ccgagctgcc gctggtacgt gaccagccgg acctgcggca tcgggccgcg 240  
 cctcccgtgg ccggagctga agaggagatg ctgccgggag ctggcggaca tcccggcgaa 300  
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 gcagctgga 369

<210> 11780  
 <211> 365  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-021-Q1-K1-H3  
 <400> 11780

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caattcaaga taccagctc agctccgagc gcttgattga ttgcgaacga aaaaacagat 180  
atcgaacagg acagtgcagc cttgctcgta acccaagaaa cgggtgctcca cgcgccattt 240  
tcatgtttgt gtaacagtta ttgttcacgc gtaacactaa gactttgggt ggacgcggca 300  
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<210> 11781  
<211> 350  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-H4

<400> 11781

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ctattcgaaa attatggcaa gaaagatcca gcctgtgtgg caaaagtga gaacctctac 180  
aaagaacttg acctagaggg ggtatttcag gactacgaga atgagagcta caagaagctg 240  
attgcagaca ttgaagccca gccaaagcatt gcggttcaga aagtgtgaa atccttcttg 300  
cacaagatct acaagaggca gaagtacggt gctcttggat aaacgagctc 350

<210> 11782  
<211> 411  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-H5

<400> 11782

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atagacgata ttcattgaaa ctgacgttta aagagcagtc tttccttgat cggaatcctc 180  
gccaggttca aggagtgtgc aacgatgctg atggaagcaa ggtcgcaaca ttgatgggga 240  
agtgggatga aagtatgcat tatatcatca acaatgatgc ctccaagacc aactcccatg 300  
gttcacatga gggttctggt gccactttgc tatgggagaa aaacgagcct ccagtcaatc 360

ccactcgcta caacttgtgc acatttgcaa taacattaaa tgagttaaca c 411

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<211> 344  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-H6

<400> 11783

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aagaagacgt actgcaagaa caaagagtgc aagaagcaca cactccacaa ggtgactcag 180  
tataagaagg gcaaggatag cctgtctgcc cagggaaagc gccgttatga ccgcaagcag 240  
tcacgatatg gtggtcagac caagcctgtc ttccacaaga aggccaagac caccaagaag 300  
aatgttctga agctgcaatg ccagaacttc aagcactact taca 344

<210> 11784  
<211> 366  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-H8

<400> 11784

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gaatatggat gtcgtttgag ttgcaatttt gtgagactga atgtgaaccc tttttctcat 180  
tccttaaata gttgactgcc agtgttcgtg gtttcaaacg aaatttagtc ttattaactg 240  
aatttgcgta ttcaaagga ttgcgtggct gcctggttat gttttgaatt ttgcgtcgcg 300  
gtccaataat tcgatggact ggacccaagg aaatttgaat ccgaatggac tgatacgttg 360  
tatttt 366

<210> 11785  
<211> 391  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-021-Q1-K1-H9

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gacaattttc cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc 180  
atcaatgata gcttcagtat gtgaaaaccc agctcttcaa ccctataggc tccaacaagc 240  
aatcgagca agcaacatac ctttatcacc cttgtttcaa caatcgccag ccctatcttt 300  
gggtgcagtca ttggtacaaa ccatcagggc acagcacctg cagcaacttc tgctacctgt 360  
gatcaaccaa gtagcttttg caaacctttt t 391

<210> 11786  
<211> 146  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-A1

<400> 11786

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ggtgactcgc ctgggccacg gacgac 146

<210> 11787  
<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-A10

<400> 11787

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tttgccaagc gcattctcagt ttctaattca aaggaagaga aggctgaagc tgagaaggat 180  
aggaatagga gatccagtga agctcgtcct aatgatgagc gaagagagaa gctacatgat 240  
cgcgagaagg ataagcccaa gtcagagAAC aagaagattc tggatgcaaa gcaactaatt 300

gatatgatcc caaggacaaa ggaagagctt tttgcctatg atataaactg ggcgatatat 360  
gacaagcatg agttgcaaga gagaatgagg ccttggattt caaaaaagat aattgaattt 420  
cttggcgagg aggaatcaac tt 442

<210> 11788  
<211> 416  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-A11

<400> 11788

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ctttcttcat gtgttcttaa cgcgaccatt tttcctccat actcacaagc tcctatagct 180  
gcccttcttg ctccataact tccataactg accgcttcag tatgtgaaaa cccagccctt 240  
caacctata ggctccaaca agcaatcgca acaaacaact tacctttatc acacctgttc 300  
tttcaacaat cgccagccct atctttggtg cagtcattgg taaaaacat cagggcacaa 360  
cagctgcaac aactcgtgct accagtgatc agctaagtag ctctagcaaa cctttc 416

<210> 11789  
<211> 328  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-A2

<400> 11789

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gatttgtttg cagcctccac ggtcagaaac tgaaaaactc attgcagacc ttgagaagga 180  
gataactgat ttgaatgctg agaatgtagc atgcataagg actttgtaac tgaggaagaa 240  
gcagtttgcc cttcttctac atgtggttga ggaattgcag atctcgattg aagatgagca 300  
gaagagtata gcagatgagc tgagaact 328



<210> 11790  
 <211> 440  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-021-Q1-K1-G9  
  
 <400> 11790  
  
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 acaagctcct atagcttccc ttcttcccc gtacctctca ccagcgggtgt cttcgggtatg 180  
 tgaaaaccca attcttcaac cctataggat ccaacaggca atcgcagctg gcattctacc 240  
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 tttattggca caaaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360  
 tgcctactct cagcaacagc agtttcttcc attcaaccaa ctagctgcat tgaactctgc 420  
 tgcttatttg caacaacaac 440

<210> 11791  
 <211> 206  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-021-Q1-K1-F3  
  
 <400> 11791  
  
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataaa 120  
 aaaaaataaa aaaaaaaaaa aataaaaaaa aaacaaaaaa aaaaaaatga aaatacacia 180  
 aaacgctaaa ttcaattata tcaaac 206

<210> 11792  
 <211> 401  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-021-Q1-K1-F4  
  
 <400> 11792  
  
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tccttcaaca accgttagcg gtattacagc agttaccttt ggtccatttg gtggcacaaa 120  
 acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgca tactctcagc 180  
 aacatcagtt tcttccattc aaccaactgg ctgcattgaa ctctgctgct tatttgcaac 240  
 aacaattacc attcagccag ctagttgctg gctaccccca gaaatttctt ccattcaacc 300  
 aactagcagc attgaactct gctgcttatt tacagcagca acaactacta ccattcaatc 360  
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<210> 11793  
 <211> 301  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-F5

<400> 11793

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 gtcagcagct gcaagggcgg cgccgcggga gcgcctgtga cgacgcccgc ggggcagacg 180  
 gcgccggcca cgggggtccaa gacgacgcc gccacgtcgt ccgtgcccgg tgccgacgcg 240  
 tcgccgtcgg gctcggttgg ccgtctcgtc gccggcttct tcgtcgccgc agacgtcgtc 300  
 g 301

<210> 11794  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-F7

<400> 11794

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 ggggaaggag gtgacggtgg aactcaagaa tgacctggcg atccgcggga cgctccactc 180  
 ggtagaccag tacctcaaca tcaagctgga aaacacccgc gttgtcgacc aggacaagta 240  
 tccccacatg ctgtcagtcg ggaactgctt catccggggc tcggtggtgc ggtacgtgct 300

gctcccgag gacggcgtgg acgtggacat cctgcacgac gccaccagga gggaggcgcg 360  
 cggaggctga tcggcatcgg catcggggccc cctcacctgt gctgcttctc cccc 414

<210> 11795  
 <211> 283  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-F8

<400> 11795

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 tggagcgtgc cagtacacct acaagtacag cgggcacggg gtgacgaagg gcaccctggc 180  
 catagacaag ctggccatcg gaggcgacgt tttccacgcc gtggtcttcg gctgcagcga 240  
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<210> 11796  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 11796

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 ccagaccagg gttccgaggc accagctgcc cagcgatctg cttgctgcgg ctcataagca 180  
 gatgcacgat ggccatagcc tttggttatt tgacattatt tatttccgc ttggctgtta 240  
 taggaaggat ttgaagaagc cacttatgat ataccgatgt ggttgactc gtggttgctt 300  
 ccattctttg aagcaaccac ctcttgctgt tgacgtagct attgctattg ctgggagcta 360  
 ttgcactctt gcattngat ccgttgaaa aactctcccc tccctacagt gtgtaatgaa 420  
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<210> 11797

<211> 331  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-021-Q1-K1-G1  
  
 <400> 11797  
  
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 tctcactccc atagtacctc ctcatattaa atacacatgt caatgcttct tcaacggccg 180  
 tactttgaat accctgggat tacctaacc aatgcgcttc cggaataacc ccctttttac 240  
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<210> 11798  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 11798  
  
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 aaacagtccg tctagtatct tactatccaa ctagtatctc atcatacatc accagtccag 300  
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<210> 11799  
 <211> 406  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-021-Q1-K1-G11  
  
 <400> 11799

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 aggtgctccg cgacaacatc caagggatca cgaagccggc gatccggagg cttgcgagga 180  
 ggggcgggcg gaagcgcata tccggggtca tctacgagga gaccgcgggc gtgctcaaga 240  
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 ccgtcaccgc catggacgtc gtctacgcc tcaagcgcca gggccgcacc ctctacgggt 360  
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<210> 11800  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-021-Q1-K1-G12  
 <400> 11800

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 actcttcggg attcatccaa tgatggcatg gaacttgtga caaactttga atcagacaaa 180  
 tctcctgcag aatttgcaaa atcatataaa gaagatgaac ttcttgaggg acatgttata 240  
 atgcttggct cagatcctgc aagccaggct gctgcactcg aggcaactaca tgcataatcct 300  
 ggtggcttgc aagttggagg tggaataaat ttgcagaatg caatgtctta ccttaatgaa 360  
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<210> 11801  
 <211> 361  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-021-Q1-K1-G3  
 <400> 11801

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tcggtatgtg aaaacccaat tcttcaaccc tacaggatcc aacaggcaat cgcagctggc 240  
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<210> 11802  
<211> 395  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-G5

<400> 11802

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atgggaacgg tcatgtcacg gatgatgtca atgtttctgc tccagctgaa gaaggaattt 180  
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catgcttcta atcaaaaatt aagatcactg tttttatata caatgtaatg gtaggcaatg 360  
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<210> 11803  
<211> 355  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-F2

<400> 11803

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caagtctgac atcaacattg gctctaagtc tagctgcaca accaactgcc ttgctccgat 300  
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<210> 11804  
 <211> 384  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-021-Q1-K1-G7  
  
 <400> 11804

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 cacaatgctc acttgctcct agttccatta ttccacagtt cctcccacca gttacttcaa 180  
 tggccttcga acaccagct gtgcaagcct ataggctaca acaagcgatt gcggcgagcg 240  
 tcttacaaca accaattgcc caattgcaac aacaatcctt ggcacatcta acaatacaaa 300  
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<210> 11805  
 <211> 414  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 tctactgcgt gctgccccgg ttctacaggc tgtccatgct cggcaccctt agcggcaagg 180  
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 actttccggt cggcatctac cccgtcgaca aggtgccggt tccctacgag ctgttcgggc 360  
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<210> 11806  
 <211> 417  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-D9

<400> 11806

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ggcgtcgaag cggatcctca aggagctcaa ggacctgcag aaggatcctc ccacctcttg  180
cagcgcaggc cctgttgccg aagatatgtt ctactggcag gcgacgatta tggggccatc  240
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attcaaacca ccgaagggtg cattcaagac gaaggtttac catccgaata tcaacagcaa  360
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<210> 11807

<211> 332

<212> DNA

<213> Zea mays

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<400> 11807

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ctaggcgcac gagaccaagg tcaagggccg ggccctcatt ggccctcatgc aagccaccgt  180
caagctcgac tgatacgggt accagaccga tccgcttgat ttacgcctgc ctgttggcta  240
tagcagcgtc cagaggcctt gcgcctgtgc aaggatcctc aatgtttgct gtgtgaacag  300
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<210> 11808

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-E11

<400> 11808

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ctacttgcaa cagcagctgc ttgcatccaa cccacttgct cttgccaacg tagctgcata 240  
ccaacaacaa caacagctgc aacagtttat gccaatgctt agtcaactag ccatgggtgaa 300  
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<223> Clone ID: LIB3059-021-Q1-K1-E12

<400> 11809

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ggaggtgatt acatcactgt cgacgagctt caaaaggctt cagtgggaaca cgagatgaaa 180  
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gaaagcagca tgaacgtacc cctggaggag gcacctgaag tttactgatg tctctgtcgg 360  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-E2

<400> 11810

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gcttgtccca gttggatatg gcatcaagaa gctgcaaata atgatgacca ttgtcgatga 180  
ccttgtctct gtcgacactc tcatcgagga ctatctctgc gctgagccag tgagcgaata 240

cgtccagagc tgcgacattg tcgccttcaa taagatctaa atttccttgc aatggtggat 300  
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<210> 11811  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-E3

<400> 11811

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 ctttggttgt ggatctacta agggagccgg atacatttgg cagcaaagtt attggctgtt 180  
 ttgtgagaat aaagattgat ctcaacgatt atagtttcta catgcataaa aaggtgcacc 240  
 aacatagaaa gttgtatcag cttggactag taacaggcac cagtaaatacc cctgaagaat 300  
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<210> 11812  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-E4

<400> 11812

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 aatgctcact tgctcctagt gccattattc cacagttcct ccctccagtt acttcaatgg 180  
 gcttcgaaca cccagctgtg caagcctaca ggctacaaca agcgcttgcg gcgagcgtct 240  
 tacaacaacc aattgcccac ttacaacaac aatccttggc acatctaacc atacaaacca 300  
 tcgcaacgca acagcaacaa caatttctac cagcactaag ccaactagct gtggtgaacc 360

ctgtcgcccta cttgcaacag cagttgcttg cattcaaccc acttgctctg gcaaacatag 420  
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<210> 11813  
 <211> 353  
 <212> DNA  
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<223> Clone ID: LIB3059-021-Q1-K1-E6

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 aaaaggaggt tgaggttccc caatggctga agagtcttgc tggtgaggaa gcacaggact 300  
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<210> 11814  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-E7

<400> 11814

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 tgtctatcct caacacggct ggctcatcca agttcagcag cgataggacg attcatgagt 180  
 acgccaagga tatctgggat atcagccctg ccatccttcc ctagaccagg tggatatcag 240  
 gttctttcgc ctatatttct gtgaaccctc aggatcaagg aacagttggt gacgacatta 300  
 atttgcctca gccccttagc aggaagcgct ggtcacctca gttttgtgta gacaaaatct 360  
 aggcatcgat aaatgatggg ggactatgca tgggtgtttg gcagcactgt tcagta 416

<210> 11815  
 <211> 348  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-E8

<400> 11815

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tctttcacca gcagccacag tgggtgatct accatgaaat tgtgatgaca aaaaagagt 120

atatgagga tgccacagcg gtggaccaa gatggctact agagttggca ccgaggtcgt 180

acaagtcggt ggacccaacg aagatcagta agcggaagcg ccaagaaagg attgaacctc 240

tctatgatag atacaatgaa cccaacttgt ggcgctgag taagcgccgc tgggtatttt 300

tcatcatgtc ttgcacgtct ttgatgtaat gttactgtag tgtatata 348

<210> 11816

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-F1

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aacttttgaa gttatgctat gccattggaa tgattagtga gtgccgcagt tagaatgatg 180

tttaaagaag agctaccact tcagcagata atttgtgact tgcttgcatt ttttgaccg 240

atgtgttcgc gtattaataa ttttgcagtg acgatacttc tggtgtgctg ttataagct 300

tctgaaaaaa attaaacccc ttagcaggaa ccagcttgta aactcatttt tgcggcaaac 360

aaaatcta 368

<210> 11817

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-F10

<400> 11817

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 agggcttcct ccggagacag tgttccagcc attgctcaag gataatctgg ttgccaaagg 240  
 gatagtactt tcattcataa ctgagttttt caaggagtag ctgaaggaaa acaccttggg 300  
 tgatttgatt gcgcttttga agaaaggaaa aatggaggac aatctgttgg acttttttcc 360  
 atcagctaag agatcctctg aggctttatc tgagcatttc atcaaagaaa gtctgactaa 420  
 gccttgtgag tacaatgaaa aga 443

<210> 11818  
 <211> 152  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-F11

<400> 11818  
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 cctgttttag attgcttatg agttatagtt caataataaa gtttttttga tgatgtttgt 120  
 ggcttcccag aaataagaaa gtacatttct ag 152

<210> 11819  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-F12

<400> 11819  
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 ggatcagcta cagggcaggt acaaggaagt gagacggaaa cagattctgt tcagagcgca 180  
 actcaagctg gagctaaccg tgatgaacag agtgcgctc agtgaacaga gtgtcgctca 240  
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 gtttttgttt tcctgcgatt gagcctgtat gttgcttatt aatctagata gcttttgttc 420

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434

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<211> 283  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-D7

<400> 11820

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aaacatttta cggggacctc tcgggcggtc gcagtgcgtt aggtagcaca ccgttgcggt 180  
gcgttgcggt cgacggcaca cctgtcagag aatcgacacc gggatcatata cttactgtgc 240  
atacctgcc aagtatatgg acatgttttt ccctatagtt ttt 283

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<211> 449  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-C10

<400> 11821

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gagatttctg cctgctgcag ggtacatgcc gaacccaggc ggctcggatt tccgctccag 180  
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ctcaggaagc ctgtactgat cagattagtt ggagcgatat gccagataag accctgaaac 360  
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<210> 11822  
<211> 439  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-021-Q1-K1-C11

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gggacacgca ctagcgtatc gtgtcggcgc cgaatcttgc gcgcatttcg cgctattgtt 180  
gccccggagg agtggttttg atccaagaaa gtgatcagcc ttcttggttg gatctcctcc 240  
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ggcagaggtc taccggcgt acggggactt cgcgtactc cccttactcg tcgccttctt 360  
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<210> 11823  
<211> 349  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-C12

<400> 11823

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cggcggcctc gcctggggcca cggacgacca ctccctccac aacgccttca gcacctacg 180  
cgaggtcctc gagtccaaga tcctcctcga tcgggagacg cagaggtccc ggggcttcg 240  
cttcgtcacc ttctccacgg aggaggcgat gcggaacgcc atcgagggca tgaacggcaa 300  
ggagctggac ggccgcaaca tcaccgtcaa cgaggcccag tcccgcggc 349

<210> 11824  
<211> 143  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-C2

<400> 11824

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aaggaaaaaa aaaaaaaata aaaaataaaa aaaaaaaata acatataata ataaaatata 120  
 aaaaaaaata aataatataa aaa 143

<210> 11825  
 <211> 417  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-C3

<400> 11825

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 ccaacttgct ttgacagacc cagcggcctc ctaccaacaa cacatcattg gtggtgcctt 300  
 ctttttagatt gcttattagt tgtaattcaa taataaaagt ttttggatga aaaaaaataa 360  
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<210> 11826  
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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 tcggacggtg tttggagcca cgtggtgttc gagcacccca agacgttcgc gacgctggcc 180  
 atggacccgg ccaagaagaa ggaggtgatg gacgacctgg acgcgttccg caacggcaag 240  
 gactactacg cgcgcatcgg caaggcgtgg aagcgcggct acctnctgta cgggccga 298

<210> 11827  
 <211> 424  
 <212> DNA



<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-021-Q1-K1-C8

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gctggcgact aaggcggccc gcaagtctgc ccctgcgacc ggcggagtga agaagcccca 180  
ccgcttccgc cccggcaccg tcgcgctccg ggagatccgc aagtaccaga agagcacgga 240  
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gaccgaccta cgcttncaga gctctgctgt ctccgcgctg caggaggcgg ctgaggccta 360  
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<210> 11828

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-D1

<400> 11828

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gcggaggatg tcatcaagcc attgaatccg atcaccttac tcttacgctt tctcgtacga 180  
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gtgccaaaag gcatgccaat ctgagtgaag ggaatgagct gcatggaata gaggatagcc 300  
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<210> 11829

<211> 369

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-021-Q1-K1-D10

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 atacagcagg acattgggag atatatagca gacaagattt agagaagctc agattacctg 180  
 aaagggcact gcctttttgac ggagggacag tcgctaatac aacaccataa acagaaagtc 240  
 agaaattgct gtcagtggac agnaccaaaa caactgagat tttgaagcga tcgctcgtag 300  
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 caactatgt 369

<210> 11830  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-D11

<400> 11830

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 atcggcggaa cccatctgcc cgctttgtca gtacaactga tgactatgaa gagcttctaa 180  
 aggaggaacc agttattgaa ttcactggcg aggaaacttt tggccgttac cttgacttgc 240  
 atgagcttta taacgagttc ataaattcca agttcggaac actgatggaa tattcagctt 300  
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 cattgcaag 429

<210> 11831  
 <211> 325  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-D12

<400> 11831

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aaaaggaaaa aaaaaaatta aaaaaaaaaa aaaaaaaaaa aaatTTTTTTa ataaaaaaaa 120  
 ataaaaaaaa taaaaaata taacatatat aaaaaataaa aattaaaaaa tataaaaaaac 180  
 ttataaaaaac aacatacctt ttattaaaat aagcggcccc tttttaaaat tccccatttt 240  
 ttcacttggtt tttatttcaa taatatcttt ttttatttga cccccaaatt ttttttactc 300  
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<210> 11832  
 <211> 309  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-021-Q1-K1-D2

<400> 11832

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 cagctgcggc tgccagccac cgccgccggt tcatctaccg ccgccggtgc atctgccacc 180  
 tccggttcac ctgccacctc ctgtgcatct tccaccgccg gtccacctgc cgccgccggt 240  
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 ctaccatac 309

<210> 11833  
 <211> 399  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-D3

<400> 11833

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 attgacccaa tggcaaccat tgaattcaaa cccaacacag ctgatgatcc ccatatgaga 180  
 aagccggata tcaccaaggc taagcaactg ctacattggg agccaaacgt ctctctcaga 240  
 gaaggccttc cgctaattgt caaagacttg cgtcaaagga tctcggtatga gtaatcgagg 300  
 caatgctacg atactggtga ccggttcgat tctgaactat gctgcaaata cagtcagaag 360

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399

<210> 11834

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-D4

<400> 11834

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gtgacttcaa tgggcttcga acaccagct gtgcaagcct acaagctaca acaagcgctt 120

gcggcgagcg tcttacaaca accaattgcc caattacaac aacaatcctt ggcacatcta 180

accatacaaa ccatcgcaac gcaacagcaa caacaatttc taccagcact aaaccaacta 240

gctgtggtga accctgtcgg ctacttgcaa cagcagttgc ttgcatacaa cccacttgct 300

ctggcataca tagttgcata ccaacaacaa caacaattgc aacagt 346

<210> 11835

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-D6

<400> 11835

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aggctccttc tctttagatt cgtcgtcctt gcgcagcaga tcgagaggct gaggggagag 180

ggatccatgg agctgggaaa gcccttttcg gcgcacagat gtagctacac cgctacctac 240

accactgtt ccataggctt ctcccctcgg gtcgtccgta ccagctggat ccgcgcggcg 300

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<210> 11836

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-C1

<400> 11836

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cgtaccaagc agactgctcg caagtccacg ggagggaagg ctcccaggaa gcagcttgcc 120

accaaggctg cccgtaagtc tgccccacc actggtggag tgaagaagcc tcaccgctac 180

cgccctggaa ctgttgccct ccgtgagatc cgcaagtatc agaagagcac tgagctgctg 240

atcaggaagc tgccctttca gaggctcgtc agggaaattg cacaggactt caaaactgat 300

ttgcgtttcc agagccatgc ggtgcttgcc ctccaggagg ctgctgaggc ataccttggt 360

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<210> 11837

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-A4

<400> 11837

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tgataaggct gtggagaggg gaagagaact tcgtgctgat ttcaagatga tctcaagggc 180

actgacaaga aaaggaacag ctctagtcaa gcttgctaag acctctaagg attttgatat 240

tgccatcgag acctaccaga aggctctaac tgagcatcgg aaccagaca ctcttaaaaa 300

gttgaatgag gctgagagag cgaaaaaaga gttggagcaa caagagtact atgatccaaa 360

attagcagat gaggacagag agaaaggcaa ccag 394

<210> 11838

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-A5

<400> 11838

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tcaccgccgc aagaacaaat cccttgaggg gctgcaggcc aatgtccaga ggcttaagac 180  
 atacaaggcc aagctgggta tcttcccaag gcgtgctcgc aagggtcaagg ctggtgactc 240  
 tactctggag gagettacca ctgctacca ggtacagggt gactacatgc caattactcg 300  
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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 tatccaccca cccatgcaat gcaatgcata cattcatgcg ttcaggatgat cacggagacg 180  
 ctgcggatgg gcaacatcat caacgggatc atgcggaagg cgggtgcgaga cgtggagggtg 240  
 agaggccacc tgggtcccaa gggctggcgc gtcctcgtct acttccgcgc cgtccacctc 300  
 gacgccgccg tccacgacga cccgcacgcc ttcaaccct ngagggtggaa ggagaggccc 360  
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<210> 11840  
 <211> 347  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-A7

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 taattgctga tgtggctctc tgcccttttg aagctgtgaa ggtacgtgtg cagacacaac 180  
 ctggatttgc tcgtggattg agtgatgggc tccccaaatt tgtccgatct gaggggtgtc 240

ttgggctcta caaggaatt gttcctctct ggggtcgtca gattccttat accatgatga 300  
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<210> 11841  
<211> 398  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-021-Q1-K1-A8

<400> 11841

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caagatatga tattgacatg accaaatgca ttactgtgg gttctgtcaa gaggcttgcc 120  
cagtcgatgc tattgttgag gggcctaact ttgagtttgc cactgagaca cagaggaac 180  
tactgtacga caaggagaaa ttgcttgaga atggtgatcg ctgggagact gagattgctg 240  
agaacttgag atctgagagc ctctatcgct gaatctgtct tccattatgg ttgataaact 300  
gggttcttcc attttccata ttttgcgtcaa ctagctgatg aataagcana cgatgtatca 360  
taacttangt acgatgtttt tgtaccttgg caccatct 398

<210> 11842  
<211> 377  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-A9

<400> 11842

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tgcgcggggc tgcagggctt gtacggcgct ggcgccggcc tgacgacgat gatgggcgcc 180  
ggcgggctgt acccctacgc ggagtacctg aggcagccgc agtgcagccc gctggcgggc 240  
gcgccctact acgccgggtg tgggcagccg agcgccatgt tccagccgct ccggcaacag 300  
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atgatgcagc ttgagcg 377

<210> 11843  
 <211> 187  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-021-Q1-K1-B10  
  
 <400> 11843  
  
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 tatttttgac ccattgtgat accaaaccag ctgcttactg taactattga tgatcaagac 120  
 gatcattcca ctcaacaact aatccaaata aatctttcat cttaccatga catttatagg 180  
 tttttcc 187

<210> 11844  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-021-Q1-K1-B11  
  
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 cgcgccccgc cggagtactt caagaaccgg tgcccgtca ccaggaccac gccaccgac 180  
 gtcgagcccg tgccgcagag ctgccgcgcc ccggggggagc tcaaggteat cttctgccag 240  
 gcgaccatcg tcacatgcgg cggcgaagca gagcgcaccg tctctgccga cagctagaca 300  
 gatcgagccg tccagctcca ttgcctcca ggctccgtg aatccttaca gtaattgtca 360  
 tgctttcttt tgctccatgt gtttgtttagc tttggcttcg acgcgcgtgt actccggtgg 420  
 ttttatttta gaa 433

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 <211> 314  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-021-Q1-K1-B12  
  
 <400> 11845  
  
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gactcacggc acacttgccc atggagtagg acacgcaacg gtgaccagcc gacttaaccc 180  
tggctggagg acaaccctac cagcacagtt cagtctaact gtacagatac gcgggcgtag 240  
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aaggtcagtt gcag 314

<210> 11846  
<211> 315  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-B2

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gaactctact gcttattaac agcaacaaca actactacca ttcagccact tagctcgagt 180  
gagccctact acctacttga cacaaacccc ttgtgaatgc agactactag cacactgtga 240  
ttgatgataa caccctatctt caaatgcacc atttggtgac attaacccca ttttttttga 300  
taaaaccagt acttt 315

<210> 11847  
<211> 399  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-B3

<400> 11847  
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aaagaagaca gaaaggcaaa gctacaggca caattttcac aaatgcgtcc tgttgcaatg 120  
gcgccttcag taggtcctcg catgcccatg tttccacctg gtgtccctgg agttggtcag 180  
cagctgttct atggtcagcc accaccagcc ttcacaaacc ctcaggctgg atttgctttc 240  
cagcaacctc tgatgcctgg tatgaggcct ggtggtccaa tgccgaactt tatgatgcct 300  
atggttcagc aaggacagca accacagcgt cctgctggta gacgtgctgg tggaatgcag 360

cagcccatgc caatgggtgg tcagcaacag gtgttcctt

399

<210> 11848

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-B4

<400> 11848

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acctacggcg aggtcctcga gtccaagatc atcctcgatc gggagacgca gaggtcccgc 180

ggcttcggct tcgtcacctt ctccacggag gaggcgatgc ggaacgccat cgagggcatg 240

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cgt 303

<210> 11849

<211> 137

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-B5

<400> 11849

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagaaaaata atgaaaaaaaa aaacaacgaa 120

aacaaaaaaaa aatatat 137

<210> 11850

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-B6

<400> 11850

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tgaaccagaa gattgaagtt cgccttgcca ttgtcatgaa agatgagact ggaaacatca 120

agtgcacccc aatctactca aggattgtct cactgtacgc tgagcagaat gaactccaat 180  
 ttgctgtccc aggagggctt attggtgtgg gaacaaccat ggaccaact ctaacgcgtg 240  
 ctgacaggct ggttggccag gttcttgggtg aagtaggttc actacctgat gtttacgtag 300  
 agcttgagat caatttcttc ctactccgga ggctgttggg tgtgaggacg aaaggtacag 360  
 agaaggcagg gaaggtgtcc aagctcacca agggtagagat cctcatgctt a 411

<210> 11851  
 <211> 370  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-B8

<400> 11851

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 tcgttctcgt cgtgtgcctg gctctgtcag ctgccagcgc ctctgcaatg cagatgccct 120  
 gccctgctgc ggggctgcag ggcttgtacg gcgctggcgc cggcctgacg acgatgatgg 180  
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 cggcggcgcc ctactacgcc ggggtgtggc agccgagcgc catgttccag ccgctccggc 300  
 aacagtgtct ccagcagcag atgaggatga tggacgtgca gtccgtcgcg cagcagctgc 360  
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<210> 11852  
 <211> 360  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 cacacggcga aggagatcgc cgcgaagatc gacgcggcga cgacgaaccg gggcggcggc 180  
 aaggccgggc aggcggaccg gctggggcag gacaagggcg ggcattgcga gctggcgtgc 240

ccgctctgcc gcaccccgcc gcccgacatc aagtccatgc agatccacca cgaggcgccg 300  
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<210> 11853  
 <211> 409  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-021-Q1-K1-A3

<400> 11853

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 ggagccggca tcgcgtccat acgctactgc accgaggtgg acaacacctt caccaaggcg 180  
 ctctgcctgg cgctgtccga gatcgccgtg ctacaggtga ctgcgctgnt cgtcaccacg 240  
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 gaccacaaga tgaagcccat catggagctg cacgagagcc atggccagga cagcaacacc 360  
 aacagcaacg acatcgagac cggcgcccgg ggcaaacagt gagggacgc 409

<210> 11854  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-H1

<400> 11854

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 acgagtcgcc gacactccat accggaagag ctaacgaggt gactccccac cgcgcccattg 180  
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 aatggtgtag tcattgccac tgagaagaag ctgccttcta ttctagtga tgaaacatct 360  
 gtgcaaaaaga ttcaggcact aacacctaatt attggagttg tctatagtgg gatggg 416

<210> 11855  
 <211> 428  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-020-Q1-K1-H10  
  
 <400> 11855  
  
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 tttcaacaat cgccagccct atctttggtg cagtcattgg taaaaacat cagggcacag 300  
 cagctgcagc aactcgtgct acctgtgac aaccaagtag ctctggcaaa cttttctccc 360  
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 tatttgca 428

<210> 11856  
 <211> 363  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-020-Q1-K1-H11  
  
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 tgctccgagt gccattattc cacagttcct ccctccagtt acttcaatgg gcttcgaaca 180  
 cccagctgtg caagcctata ggctacaaca agcgtttgag gcgagcgtct tagaacaacc 240  
 aattgcccac ttacaacaac aatccttggc acatctaacc atacaaacca tcgcaacgca 300  
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<210> 11857  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-H12

<400> 11857

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ctttggtttg tggtggcatc agtcacaaa aagggggaga ttgaaaggga aatggcctca 180  
atcatttcct ataatcgatt ttggtgtttg acgaccatca caaaccttat ggactaacta 240  
gtttgcctag ttgatctttt ctcagggtgca taaagtttat atacacatat aaggaaaatg 300  
acccttgggc caattctata agtatggggc aagtcaagat tgcaccagcc tgcattgcacc 360  
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<210> 11858

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-H2

<400> 11858

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tcacgtttga tacaaccaag tagctgccag gtattgcagc aacaatgttg tcatgatctt 180  
aggcagattg agccacaata cattcaccaa gcaatctaca acatggttca atccataatc 240  
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gCGgtggcaa tcttgacagc agcacaatac ctaccatcaa tgtgcggctt gtaccactca 360  
tactacaaa ataaticcatg cagcagcaat gacattagtg gtgtttgcaa ttgaagaatt 420  
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<210> 11859

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-H4

<400> 11859

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 aggagaaggg tgcagctcac ttgaaggggtg gtgccaagaa ggttgtcatc tctgctccta 180  
 gcaaggatgc ccccatgttt gtcgttgggtg tcaacgagaa ggagtacaag tctgacatta 240  
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 atgacaagtt cgggtatcgtt gaggggtctga tgaccactgt ccatgccatc actgctaccc 360  
 agaagactgt tgatgggccc tcactaagg actggagggg tggaagggct gctagtttca 420  
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 <211> 404  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-020-Q1-K1-H6  
  
 <400> 11860

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 caattctggc ccgggtgaag tttctgagtt gactggcccc gatgtcatgg aagagaagtg 180  
 cgcttctgct gccatttggt ttgtatcatt ccttcagac atccttgatt caaaggcaga 240  
 aggaagaaac aagtaccttg agtcctgct ctctgtagct gagaagttta aaaagagtcc 300  
 atacagtttt gtctggacag ctgctggcaa gcaagctaata ctcgagaacc aggttgggtg 360  
 gggcggctac ggctatcccc ccatggtagc tctcaactg aaga 404

<210> 11861  
 <211> 437  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-020-Q1-K1-H7  
  
 <400> 11861

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caacaacaac agctgcaaca gtttatgcc a gtgctcagtc aactagccat ggtgaaccct 180  
gccgtctacc tacaactact ttcattctagc ccgctcgcgg tgggcaatgc acctacgtac 240  
ctacaacaac agttgctgca acaaattgta ccagctctga ctcagctagc tgtggcaaac 300  
cctgctgcct acttacaaca gttgcttcca ttcaaccaac tggctgtgtc aaactctgct 360  
gcgtacctac aacagcgaca acagttactt aatccattgg cagtggctaa cccattggctc 420  
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<210> 11862  
<211> 375  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-020-Q1-K1-H8  
<400> 11862

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tgccctgccc ctgcgcgggg ctgcagggt tgtacggcgc tggcgccggc ctgacgacga 180  
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<210> 11863  
<211> 395  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-020-Q1-K1-H9  
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ggaaagacta gaacaagaaa gagagattaa gcaaatgag gaaaaggaaa gagagcaaag 180  
aagacttgaa gaggaaagag aacttgagcg acataaagaa agagaaagag ctaggcaagc 240



agtggagagg gctacaaagg atgcacggga aagagcagct gttgaagctc gtgcaaaagc 300  
 ggagagagag gcacgccaac gttcagaacg tgctgctgtg caaagagccc aacaaggaag 360  
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<210> 11864  
 <211> 191  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-A1

<400> 11864

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 gccaaagctgg ttatcttccc aaggcctgct cgcagggcca aggctggtga ctctactctg 180  
 gaggaacctt a 191

<210> 11865  
 <211> 455  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-A11

<400> 11865

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 gctgcttatt tgcagcagca aatactacta ccatttagcc agctagctgc agcaaaccgt 240  
 gcttccttct tgacacagca acagttgctg cctttctacc agcagtttgc ggctaacccc 300  
 gcaaccctct tacaactaca acaattgttg ccctttgtcc aacttgcttt gacagaccca 360  
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 gaattcaata ataaagggtt ttggatgatg tatgt 455

<210> 11866  
 <211> 401

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-A12

<400> 11866

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tttgataggt tcaaagtcac gctggcaaag gtcgagaggg gtggtgctat caggcaagag    180
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agagtttttg gttctaagtt ggatcagcaa ttcgattgag tgtcgataaa gacagaagta    300
ctaatatgtt ccctgtgaat acattttaaa ctttatcaag catgggtgtg ctctagatat    360
tttatcgtga ataatatata atatataagg tagcttgcgt c                          401
  
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<210> 11867  
 <211> 381  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-A2

<400> 11867

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caggagtgag gaaatcgaag ctggatgtaa caatagattt tactgtttgc aaatgcaacc    180
tttgtttttt tttttctggg tgttcttcgt gttggagggt tttttagctc tgccctagtt    240
gtgagttgtg acatcttttag ttttaggctg aagtctgaac gatatggggg gagagatcat    300
gcgtgcccac ggttgtcttg ggattggaca tgcataagtt gagatgttct ctttttctgt    360
aagagttttc ttttcgatgt g                                     381
  
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<210> 11868  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-G9

<400> 11868

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cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata 180  
gcttcagtat gtgaaaaccc agctcttcaa ccctataggc tccaacaagc aatcgagca 240  
agcaacatac ctttatcacc cttgtttcaa caatcgccag ccctatcttt ggtgcagtca 300  
ttggtacaaa ccatcagggc acagcagctg cagcaactcg tgctacctgt gatcaaccaa 360  
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<210> 11869  
<211> 394  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-020-Q1-K1-F5  
<400> 11869

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agccagctag ctactgccta ctctcagcaa caacaacttc ttccatttaa ccaattggcc 180  
gcactgaacc ccgctgctta tttgcagcag caaatactac taccatttaa ccagctagct 240  
gcagcaaacc gtgcttcctt cttgacacag caacagttgc tgcccttcta ccagcagttt 300  
gcggctaacc ccgcaaccct cttacaacta caacaattgt tgccctttgt ccaacttgct 360  
ttgacagacc cagcggnctc ctaccaacaa caca 394

<210> 11870  
<211> 439  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-020-Q1-K1-F6  
<400> 11870

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cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata 180  
gcttcagtat gtgaaaaccc agctcttcag ccctataggc tccaacaagc aatcgagca 240  
agcaacatac ctttatcacc cttgttggtt caacaatgc cagccctatc tttggtgcag 300  
tcattggtac aaaccatcag ggcacagcag ctgcagcaac tcgtgctacc tgtgatcaac 360  
caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac 420  
caactgtcta cactgaacc 439

<210> 11871

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-F7

<400> 11871

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ctcacaagct cctatagctt cccttcttcc ccggtacctc tcaccagtgt tgtcttcagt 180  
atgtgaaaac ccaattcttc aaccctacag gatccaacat gcaattgcat caggcatctt 240  
acctttatca cccttggttc tacaacaatc atcagcccta ttacagcagt tacctttggt 300  
gcatttattg gcacaaaaca tcagggcaca acaactcgtg ctagcaaacc ttgctgccta 360  
ctctcagcaa caacagttac ctttggtgca tttggtggca cacaacatca aggcacaaca 420  
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<210> 11872

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-F9

<400> 11872

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aggccttggc acttcacaac ctgggaaggg aggctgaaag ccaagaagca ctgaagaatg 180

gcactgcctt ggaagctgca atgaatagta gagctagaac tgtatagccc tgaatttgtg 240  
 ataccctgtc ctgcttgtac ctagatcgcc tccctccaat gcttcgtcac cagtaggggc 300  
 tgtttttggg attccctaac ttgtatcggg atttccccta gtttcacaag tcgaaaaaac 360  
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<210> 11873  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-G10

<400> 11873

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 tgacttcaac acggcaactt tcagtacat tcttaagaag ctcggttaaga ttttgagaca 180  
 tgttttactg attttcagtc gttcatgcta gatgcactaa caaactttat cttgtagaca 240  
 atcactacaa aatggatctg accccaaaga aagaagccat caaagttatg atccaagacg 300  
 agttaaccaa gctatcagag gaggatgaag aaggagaggg agacgaagac accgggaaga 360  
 aacagcagca gcctcaggcg caggagatcg aggcattgagg atccgcggaa ccccgtagct 420  
 gtagt 425

<210> 11874  
 <211> 336  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-G11

<400> 11874

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 gcggcctcgc ctgggccacg gacgaccact ccctccacaa cgccttcagc acctacggcg 180  
 aggtcctcga gtccaagatc atcctcgatc gggagacgca gaggtcccg cgccttcggct 240  
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agctggacgg ccgcaacatc accgtcaacg aggcc

336

<210> 11875  
<211> 409  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-020-Q1-K1-G12  
  
<400> 11875

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aggaacatat tcttcttctt tgggtcaaact ggaggaaact gaacagaatt aaactgccac 180  
atgagcgtgt gcacttgggt gctaaagcct cgatgcttac acacagtgc atgttggtga 240  
ttgcaaaaac aagatgccac tatgaaaacg cgaactactt tntgctggat aaacaaggca 300  
tcgtttacgt tttcatccac aaggaggcaa caccagccga tgttntaagg tccttcgtac 360  
acgggctcgt gctagctagc tcgacacaga acagcaaacc tcagcactt 409

<210> 11876  
<211> 363  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-020-Q1-K1-G2  
  
<400> 11876

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gccgcggctc cgaagccgaa gctgcccgc gccaaagcca aggcggccac cgctggtgcc 180  
tcccacccgc cttacttcga gatgatcaag gaggtatca cggcgctcaa ggagaggacc 240  
ggctccagct cgcaagcgt cgccaagtat gtgggggaca agcacggcgc gtctctgccg 300  
gccaaattca agaagatgct ttccatccag ctccgtgggt ccgcagccaa gggcaagctc 360  
gtg 363

<210> 11877  
<211> 441

<212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-020-Q1-K1-G3  
 <400> 11877

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acgtcgaggc gcggctcgga gaccgcacgc tgtatgccga cgagatactc aaggacggct 180
tctgcctgaa catgatcgag acgccgtctt gccctctcaa ggctcgtcact aacctgcnag 240
aggccgtctg ggatgccgac atcgtcgtga atgggggtgcc gtccaccgag acgagggagg 300
tgtttgatga gatcagcgag tattggaagg agaggatcag tgtcccgggtg ataatttccc 360
tcgccaaggg aattgaggcc tcgttgatc caatacctcg tatcattaca cctactcaaa 420
tgattagctc tgcaactgga g 441

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<210> 11878  
 <211> 351  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-020-Q1-K1-G5  
 <400> 11878

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ctgtaagaaa ttcacctact gaatccttgg aaagtgaaga tgaagatggg ttcctgtat 180
cattttctga atcaaagaag agttctgaga ttatttcaaa caagaatgtg ggaaaagaca 240
aggagactag caacaaagac ctgaaaagaa aaagtggacc catagcgacc gtggtgaatc 300
ttcaaggggg gtaaaagctg aaaatgaatg ggcattcaag gaaaaggaaa a 351

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<210> 11879  
 <211> 410  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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<400> 11879

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ggcgctggcg ccggcctgac gacgatgatg ggcgcggcg ggctgtacct ctacgcggag 180  
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cagccgagcg ccatgttcca gccgtccgg caacagtgt gccagcagca gatgaggatg 300  
atggacgtgc agtccgtcgc gcagcagctg cagatgatga tgcagctnga gcgtgccgct 360  
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<210> 11880

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-G8

<400> 11880

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tggtaagacc accatcctct acaagctcaa gctcggagaa atcgtgacca ccatccctac 180  
aatcgggttt aatgtggaga ctgttgaata caagaacatt agcttactg tctgggatgt 240  
tggaggtcag gacaagatca ggccattgtg gaggcactat ttccagaaca cccaaggcct 300  
tatctttgtt gttgatagca atgacagaga tcgtgttggt gaagcaaagg atgagctcca 360  
caggatgctg aacgaggatg aattgagga tgctgtcttg ctcgttttcg caaacaagca 420  
agatctacca aatgc 435

<210> 11881

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-F4

<400> 11881

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gcttcgggctt cgtcaccttc tccacggagg aggcgatgcg gaacgccatc gagggcatga 240  
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gtggaggcgg cggcggtggg tacggtggtg gccgtggagg cggcggttac ggcggtggcg 360  
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acggtggtgg tggcgggc 438

<210> 11882  
<211> 421  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-020-Q1-K1-E12  
<400> 11882

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cttcaacggc ctctgcggcg acaacgcgtt cttccacgcc gtgtattgcc agctcgtggc 180  
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cctccctgct tgccagtcag aatcagaatc taccatcagt tagtgatgag ttatttctag 360  
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t 421

<210> 11883  
<211> 446  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-020-Q1-K1-E2  
<400> 11883

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aggggaaggcc aagccgctga aggcgccccaa ggccgacaag aaggagtacg acgagacgga 180  
 tcttgcatat ctgcagaaga agaaagatga ggaaaaagca ctgaaggagc ttaaggccaa 240  
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 gtcacccgtc tccaatacct agaggatgat aaggcagctg tctatctgtg ttgcgcttca 360  
 ctaagtgtga ttgtaacagt ggtacctctt gtgttctgtg ttccgcgatg ttgcagttgg 420  
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<210> 11884

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-E3

<400> 11884

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 aaggaaaactg caaagtatga aggcgtccgt ggattttaca ggggcatcac gtccaatcta 240  
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 ttcaaagcaa ccaaggagaa gacgtagcta ctcatataat ccaggagtac tatgcatggt 360  
 ctgacatttc tgagttcaaa cgatgcctat aatttccatt ccacgtcaag cccatatttt 420  
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<210> 11885

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-E4

<400> 11885

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 accaagccac tgaagacctg caagcattgg agtaccacga gatggcagca gaggcgtact 180

atctgaaggc aatggcatac aaccatctcg gcaagcttga tgagagggag gaagccgcgg 240  
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ggcgaatggc gtttgctgcc atg 443

<210> 11886  
<211> 349  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-E5

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gcaaaaagga ttttatgtga agttgtcgat ggggtgaaaa agatgtgacc atctctgacg 300  
gtctgacctg cttcattcat gaggaattga ggataaagca catttgaac 349

<210> 11887  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-E6

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aatgctcact tgctccaagt tccattatta cacagttcct cccaccagtt acttcaatgg 180  
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tacaacaacc aatttcccag ttgcaacaac aatccttggc acatctaaca atacaaacca 300  
tcgcaacgca acagcaacaa caattcctac cagcactgag ccacctagcc atggtgaacc 360

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 ttgcaaacca gccac 435

<210> 11888  
 <211> 392  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-E9

<400> 11888

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 agcaacaact gatttaatat aaccactata gaagagggtg atgcacctac ataccatgca 180  
 acaacaattg ctgcaacaga ttgtaccagc tctgactcag ctagctgtgg caaacctgc 240  
 tgcctacttg caacagctgc ttccattcaa ccaactgact gtgtcgaact ctgctgcgta 300  
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 cttcctacag cagcaacaat tgctaccata ca 392

<210> 11889  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-F1

<400> 11889

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 gcctacaact ggtccaggcc gggcatgaag accagcgtca agatcatcca cgccaggctg 180  
 catgctcagg ctctcacgct ggctgccttg gctgggtccg cgctgggtgga gtactacgac 240  
 caccagcaag ggtcaggatc gaaagttcac caatatgcaa agcagttcct ttcattctgat 300  
 agcaatagcg gccaaacaaa ggagtagcta gccagtgtcc ttgcgaaatg caagcagcgg 360  
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 gg 422

<210> 11890  
<211> 420  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-F11

<400> 11890

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acctagccgt ggtgaacctt gtcacctact tgcaacagca gctgcttgca tccaaccac 180  
ttgctctggc gaacgtagct gcataccagc aacaacaaca gctgcaacag tttatgccag 240  
tgctcagtca actagccatg gtgaaccttg cagtctacct acaactactt tcacttagcc 300  
cgctcgcggt gggcaatgca cctacgtacc tacaacaaca gttgctgcaa caaattgtac 360  
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<210> 11891  
<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-F12

<400> 11891

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tcctatagct tcccttcttc ccccgtaact ctcaccagcg gtgtcttcgg tatgtgaaaa 180  
cccaattctt caacctata ggatccaaca ggcaatcgca gctggcatct tacctttatc 240  
acccttgctc ctccaacaat catcagccct attacagcag ttacctttgg tgcatttatt 300  
ggcacaaaac atcagggcac aacaactaca acaacttgct ctagcaaacc ttgctgccta 360  
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tttgc 425

<210> 11892  
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<212> DNA  
 <213> Zea mays  
  
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 gtgttcgctg ccgtctgggt gctcgccgtc gccgccttcg agatgaagcg ctgctacgcc 180  
 gacgacgact gatgagctag cgacacgtaa gagtcacagt tcgggtccaa cagctgacgg 240  
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 agcgccgagc gcgcgcgcgc gcacacacac accattcttg ttgttcgta gctcgagct 360  
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 <213> Zea mays  
  
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 gttggagcca gagaaagcgg atgagttcaa aaaggggtgc gaggggtgcaa ccaagtttct 240  
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 tgtggtattc gcctattaca aggatggtgc cactaatccg acattcctct atttctctca 360  
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 t 421

<210> 11894  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-C9

<400> 11894

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gtctagcagc agccaccgcc gcctcatcct cgcagccgcc gtctgtctct ccgtgctcgc 180  
ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc cgcacaacct 240  
gtccccgagc tgccgctggt acgtgaccag ccggacctgc ggcatcgggc cgcgcctccc 300  
gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 360  
gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccgggcccgg acgcgc 416

<210> 11895

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-D1

<400> 11895

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ggagaccacc aagcagctga acgccgtaa agtcgttgct gtgggccctg gtgatcgtga 180  
tagggatggc aagctgatcc ctgtatctct gagcgaagge gacactgttc tgcttccgga 240  
gtacggtggg acagaagtga agcttgaga aaaggagtac cttcttttca gagagcacga 300  
catactgggg aagctcgagg agtagctctg gactgttaaa atggagttgt ttgaaagtag 360  
gtatgcaaga gttttgccac ggcttatctt tttttttttt gtacggggga acaaatgaaa 420  
aacacaa 427

<210> 11896

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-D10

<400> 11896

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 tcattattcc ccaatgctca cttgtccta gtgccattat tccacagtcc ctccctccag 180  
 ttacttcaat gggcttcgaa caccagctg tgcaagccta caggctacaa caagcgcttg 240  
 cggcgagcgt cttacaacaa ccaattgccc aattacaaca acaatccttg gcacatctaa 300  
 ccatacaaac catcgcaacg catcagcaac aacaatttct accagcacta agccaactag 360  
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<210> 11897  
 <211> 417  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-020-Q1-K1-D11  
  
 <400> 11897

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 gaatatggta tggataagct catccaaatt gcggcaaccc aacttagcga ccagcttcct 180  
 gaatcaaggg aggctgctcg caacctggca ctggaactgc aagcattcta tgagaagtct 240  
 caggcctcaa cttctgacga acacgaggtc gaggcctctg cctcgccaga tgctgaatca 300  
 tgggaggctt tctgccagtc caagctctcc gcattaagtg cccaagccat tcttcgtgtg 360  
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<210> 11898  
 <211> 362  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-020-Q1-K1-D12  
  
 <400> 11898

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cacaagctcc tatagcttct cttcttcccc catacctctc accagcgttg tcttcagtat 180  
 gtgaaaaccc aattcttcaa ccctacagga tccaacaggc aatcacagca ggcattctac 240  
 ctttatcacc cttgttctct caacaatcat cagccctatt acatcaatta cctttggtgc 300  
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<210> 11899  
 <211> 445  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-020-Q1-K1-D2

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 gatgtatacc tccgttttag ctctggtgtc gtgcagggtgc agcagccagc aggtattata 180  
 taaaaatgct tgtaggtgta tggagccagt agaagagggt gtccgagaat aagatcgctc 240  
 atggcacagt tgagatgagc ttggcttgca ggagagtggg gtgtttgtgc atagtgtttt 300  
 gacatatgag atgcgttggt cttttctttt tttccctttt ttttttttgt atatagtgag 360  
 tactctgcc gnetcgcaac accgggctcg atctcggccg ttacctgatg gtggtgagtg 420  
 tgcttgcat cggtgtgttt ctgtc 445

<210> 11900  
 <211> 407  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-020-Q1-K1-D3

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 gagtgtacta taaagagtta atataggagc tgaccctgtg aaccgcgtg atggatgcat 180

atgcttagtg caaacctgca ttttgtctct atttgaccat ctgtacacgc atgatcgct 240  
 tgcttgctg gtgtctggc tgctgatggc agcgcaaagc gaaaggcaaa tgcattgaag 300  
 ggaaggcaag tggaggttg agttgatgct gncgngtgcg ggcgcgattt gctgtncctt 360  
 tncggtgtgc ggtgttgact gacgcgcgcg agcacgaaac tggggga 407

<210> 11901  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-020-Q1-K1-D4  
 <400> 11901

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 aatgctcact tgctccgagt gccattattc cacagttcct ccctccagtt acttcaatgg 180  
 gcttogaaca cccagctgtg caagcctata ggctacaaca agcgcttgcg gcgagcgtct 240  
 tagaacaacc aattgcccac ttacaacaac aatccttggc acatctaacc atacaaacca 300  
 tcgcaacgca gcagcaacaa gactgagcc acctagcgt ggtgaaccct atcgnctact 360  
 tgcaacaaca gctgcttgca ttcaaccac ttgctttggc aaacgtagct tgatacaaca 420  
 acaaccacag ttgcaacagt ttct 444

<210> 11902  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-020-Q1-K1-D5  
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 cattattcca cagttctctc ctccagttac ttcaatgggc ttgcaacacc cagctgtgca 180  
 agcctacagg ctacaacaag cgcttgccgc gagcgtctta caacaacaa ttgccaatt 240  
 acaacaacaa tcttggcac atctaaccat acaaccatc gcaacgcaac agcaacaaca 300

atttctacca gcactaagcc aactagctgt ggtgaaccct gtcgcctact tgcaacagca 360  
 gttgcttgca tccaacccac ttgctctggc aaacatagtt gcataccaac aacaacaaca 420  
 attgcaacag tttct 435

<210> 11903  
 <211> 314  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-020-Q1-K1-D7  
 <400> 11903

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 ctaccggacg ttctacacca accatacgga gctgggtggg ctgtatcagg agacctacat 180  
 gctcaccttc gacggccaga tgtccatggc ccatccgtca ttgccgtcaa gctcggatct 240  
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<210> 11904  
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 <213> Zea mays  
 <223> Clone ID: LIB3059-020-Q1-K1-D8  
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 atcgtcgtcc ttccccgaag cagtcgtgag cgagacgtga ggcgacggtg cctccacca 180  
 ccgccaccgt ctcgatttg tcgtcattca ccgccatctc tgctcagtt tgetgtctc 240  
 caccaccgtc ttccgcggca ctatgtacaa tacaatgttg tctccaagac ccagtacatg 300  
 gtcttctcca agatccagta caagatcgtc tctccaaga tttgaacccc aacgctagtg 360  
 agagtggagg caacacatga aaccaacatg gagaagaaaa atgaaatggc attccacatg 420  
 aagcttgtga aaaaga 436

<210> 11905  
 <211> 169  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-020-Q1-K1-D9  
  
 <400> 11905  
  
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 tttctgggaa gccacaaaca tcatccaaaa aataagaaag tacatttct 169

<210> 11906  
 <211> 400  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-020-Q1-K1-E1  
  
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 ctgccgctgt ggcggcgcca gagagggagg cggagatcga gcaggccatg cgcgcccgcg 180  
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 aaaaggacct gggtttggag acatattcac ttgatgcaca taaaaacttc ataatcaat 300  
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<210> 11907  
 <211> 415  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-020-Q1-K1-B11  
  
 <400> 11907  
  
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gattgaccat ggttggttga ttgccaaccc ccaccagttc aaggtcccta gctggttcct 180  
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 caagaagctc agcttaggga tgactctagg ctgaagaaga ccaggaacca ctatggtttg 300  
 tcactactgg ggtctacttg tccgtggcca gcacaccaag actacaaaaa ggcatggaaa 360  
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<210> 11908  
 <211> 360  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-B3

<400> 11908

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 gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300  
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<210> 11909  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-B4

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 gggatcctat atgtgatggc agtcatcaat acaaagcatc tggacacatg atgtacagca 240  
 acgcacgcta tctgggagct accactgagc tgttacaaa catttctgcc tacctattag 300  
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369

<210> 11910  
<211> 376  
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<213> Zea mays  
  
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cccctacgct gctgccggcg gtgtcccca ctgaagaaac tatgtgctgt agtatagccg 240  
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aaaaaagtat tgttcc 376

<210> 11911  
<211> 431  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-020-Q1-K1-B7  
  
<400> 11911

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ctcacttgct ccaagttcca ttattacaca gttcctccca ccagttactt caatgggctt 180  
cgaacaccca gctgtgcaag cctataggct acaacaagca attgcggcga gcgtcttaca 240  
acaaccaatt tcccagttgc aacaacaatc cttggcacat ctaacaatac aaaccatcgc 300  
aacgcaacag caacaacaat tcctaccagc actgagccac ctagccatgg tgaaccctgc 360  
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aaaccagcca c 431

<210> 11912  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-B8

<400> 11912

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tcgcctccgc cgctccgct gccgatgcgc cctttgtcgt cgcgcacaaag aaggtttcgc   180
tctcccgccc caagccgggc gtcgagcgcg tcgcggtctc cctcgacctc tacaaccagg   240
gatccgcgac tgccatgat gtgtcactta atgacgactc ttggccaaca caagcatttg   300
agcttgtcac tggagagaaa tcgaagacat tggaaaggct tgaccctggg gccactgcta   360
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<210> 11913  
 <211> 392  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-B9

<400> 11913

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acttgcaaca gcagttgctt gcatcaaacc cacttgctct ggcaaacgta gttgcaaacc   180
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ctgccgccta cctacaacag caacaactgc tttcatatag cccgctcgct gtggccaatg   300
cacctacata cctgcaaaa caattgttgc aacagattgt accagctctg actcatgtag   360
ttgtggcaaa cccttgtgcc tacttgcaac ag                                     392
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<210> 11914  
 <211> 413  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-C1

<400> 11914

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acgcctcgat ctagatccac tcttcccccc cttctccttc cggctcctcc cccgagactc 180  
ttctattcat ataggcgggt aggcgtccga ggcctcgttt gttctcgggt tctcgtctcc 240  
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atggcgaaga tcaagccgaa ggccttgctc gcgcaaagca aggtgaagaa ggtccccggc 360  
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<210> 11915

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-C10

<400> 11915

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aaaaaaataa agattaaaaat ttaattacat aaaaaaataa taaaaaaaaa ataattatta 180  
ataaaaaacat aaaaaaaaaa aaacatgaca gtagttaaaa aattttacaac ttgaaaaaac 240  
tataatattt ccaaattaaa tcgtatttgt ccatattccc atttggcaat ttgccttaat 300  
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<210> 11916

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-020-Q1-K1-C12

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 aaccaactag cagcattgaa ctctgctgct tatttacagc tgcaacaatt gctgccattc 240  
 aaccaacttg ctttgacaaa ccagcagtg ttctaccaac aacctcatcat tgggtggtgcc 300  
 ctctttttaga ttgcttatga gttatagttc aataatgaag ttttttggat gatgtttgtg 360  
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 g 421

<210> 11917  
 <211> 442  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-020-Q1-K1-C2  
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 accaaggatg gcaagccttt tgttgatgct ctcaaggagg gaggcgtcct ccctggcatc 180  
 aaggttgaca agggcaccat tgaggttggt ggcaactgata aggagaccac caccgaaggc 240  
 catgacgacc ttggcaagcg ttgcgccaag tactacgagg cagggtgccc ctttgccaag 300  
 tggcgcgctg ttctcaagat tggccctaata gagccatcac agcttgccat cgacctgaac 360  
 gctcagggtc tggctcgcta tgccatcatc tgccaggaga atggtctggt gccaatgtgt 420  
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 <223> Clone ID: LIB3059-020-Q1-K1-C3  
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cagcaagtgg gtgaatatgc aaggtttcaa caaatcctag tgctgttggg ggctgcagct 180  
gcaagagttc tttcatgggtg aaatagcttc aattaccttg aagagatcaa taattggaaa 240  
tagcattctg tagcgaatca tacgctttgg atctgagtgt acaattgtta ttttttggta 300  
gttctgaaga cgtttctttt tgagttttgt tactgttggg aacatcatca caaactgtct 360  
ggttcaatct gtatccctct aacttgtgat agttgtgata tgatgacaag tttatgtaca 420  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-C4

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tcctggcett ctccctgggc gtctcggaag gccttgtcat ggtgctggcg cgcagcctgc 180  
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gctgtggcgg acaaaagatg ggccgcctta tcaacgttgc ggcatctac attgtcggca 360  
tcctgtagc gtccgttttc gccttcgttc gtcacctcgg tggaatgggt ctttggtttg 420  
ggatcttggt cgagtagc 439

<210> 11920  
<211> 431  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-C5

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catcatgcac catctactat tttccttgat gagattgatg ctatcattag tcaacgtggt 180

gaagctcgta gtgaacatga agctagccgg cgattgaaaa ctgagctatt aatacagatg 240  
 gatgggttga ctaagacaga tgagcttggt tttgttctag cagcaacaaa ttaccatgg 300  
 gagttggatg cagcaatgct gcgtcggctg gagaagcgta ttcttggtcc attgccagag 360  
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 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 11921

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 cccttgtaga ctacggcaaa gactacggcc gcctcgtcgt catcgtcgat gtggtcgacc 180  
 agaacagggc acttgtagac gccctgata tggtcagggt ccagattaac ttcaaacggc 240  
 tctcacttac cgacatcaag attgacatca aacgtgtccc caagaagtca accttgatca 300  
 aggctatgga ggaagctgat gtgaagacta agtgggagaa cagctcatgg ggcaagaagc 360  
 tgattgtcca gaagaggagg gctgcactca gtgactntga caggttcaag gtcattgctg 420  
 ca 422

<210> 11922  
 <211> 360  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-H7

<400> 11922

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 aacgcgcccc atggctgaga atctccagtt gcgatgtgaa tggccgtagc caatcacact 180  
 acatgccgac cgacgcacac ggcacacca atgaccgtac tcatcgcca accagcaggc 240

gactggaacg tcatagaccg cgacatcatc actgctcacg gcaccgccat agacgtcaac 300  
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<210> 11923  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 gagaacaaca ctggtggcta acacatcaaa catgcctgtc gctgctcgtg aagcttccat 120  
 ttacactgga attacaattg ctgagtatct ccgtgatatg ggctacaacg tcagtatgat 180  
 ggctgactcc acctnccggt gggctgaggc attgcgtgag atctcagggc gtttggctga 240  
 aatgcctgct gatagtgggt acccagctta actggctgac gtttggcatc cttttatgaa 300  
 cgtgctggta aggtaaaatg tctgggaagt ccagacagga atggcagtgt cacaattggt 360  
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<210> 11924  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-020-Q1-K1-A1  
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 taagctgaat gatgaaagaa aacctctgta cattacatgg aaggcagacc ggctattggc 180  
 tccattgctc caatgtctgc tttggctgcc ttgcctcgat ggaccggatg cagtgaggaa 240  
 tccagccgaa cgacagtttg aaggatagga aggggagctg gaagcagtca cgcaggcagc 300  
 ctgcgcgtga ttcatatgga acaagctgga gtcagtttct gctgtgccac tcaactgtta 360  
 ccttaagatt attacctggt gttgtgtcct ttgctcgta gggctgataa cgtaatgact 420

cattagaaaa tcatg

435

<210> 11925

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-A10

<400> 11925

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agagagctga cgtgagggtg gagacgcgga tctgtggagta ctactcagta ggagatcaag 120

aggaaggagg tggggagggg aagaaggcga tagccgggga ggatgggtgct tgtgcttgctg 180

ctgggggatc tgcacatccc gcaccgggag cccgacctcc ccgccaatt caagtccatg 240

ctcgtgcccc gcaagatcca acacatcatc tgcactggca atctctgcat caaggaagtc 300

catgactacc tgaaaagcct ttgccctgat ctccatatta ccagaggtga acatgatgag 360

gatgctcgat acccagagac taagacactt acaattggtc agtttaagct tgggct 416

<210> 11926

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-A11

<400> 11926

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ttcccccgta cctctcacca acgggtgtctt cggatatgta aaaccaatt cttcaaccct 120

acaggatcca acaggcaatc gcagctggca tcttaccttt atcacccttg ttccctcaac 180

aatcatcagc cctattacag cagttacctt tgggtgcatat attggcaca aacatcaggg 240

cacaacaact acaacaactt gtgctagcaa accttgctgc ctactctcag caacagcagt 300

ttcttccatt caaccaacta gctgcattga actctgcttc ttatttgcaa catcaacaac 360

taccattcag ccagctatct gctgcctacc ccagcaatt tcttccattc aaccaact 418

<210> 11927

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-A12

<400> 11927

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ctccacaacg ccttcagcac ctacggcgag gtcctcgagt ccaagatcat cctcgatcgg 180

gagacgcaga ggtcccgcgg ctctcggttc gtcaccttct ccacggagga ggcgatgcgg 240

aacgccatcg agggcatgaa cggcaaggag ctggacggcc gcaacatcac cgtcaacgag 300

gcccagtcct gcggcgcccg tggaggcggc ggcggtgggt acggtgggtg ccgtggaggc 360

ggcggctacg gcggtggcgg gcgccgtgat ggcggtggcg gctacggcgg tggcggc 417

<210> 11928

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-A2

<400> 11928

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attatatgtt gcgtctccat gcgcagcgcg ctctctgcgt gcgtgctgat cccgacacga 120

ttctctcact gttcacacgc tcctatatcg ctcttgactt ttcccatata caccatacca 180

gctgtgttca aggtgtgcga acacacattt gttacactgt aggcgatata acgcggtcgc 240

agagctctgc tcacatctat aacactcgtg tta 273

<210> 11929

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-A4

<400> 11929

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gggtatccgg gccaacctac cgttccctgc aatgcaatag ctttccctata gtgtaacgta 120

acctaaattc actgccttgg ccttaacacc acaacgactg gaaaaacccat gccctgcccc 180  
aactcaactt aattgcatta catcccattt tcctcacctg agctatcgcc aaagaggcca 240  
ggcccgttcg gattgcccac cacttcagca gcccaaacgg aaat 284

<210> 11930  
<211> 432  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-020-Q1-K1-A5  
<400> 11930

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accaacaatg gcagccaaaa tattttgcct ccttatgctc cttgggtcttt ctgcaagtgc 120  
tgctacggcg accatthttcc cgcaatgctc gcaagctcct atagcttccc ttcttcccc 180  
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ccaacaggca atcacagctg gcattctacc tttatcaccc ttgttctctc aacaatcatc 300  
agccctatta catcagttac ctttggtgca tttattggca caaaacatca gggcacaaca 360  
actacaacaa cttgtgctag caaaccttgc tgcctactct cagcaacagc agtttcttcc 420  
attcaaccaa ct 432

<210> 11931  
<211> 182  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-020-Q1-K1-A7  
<400> 11931

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gttggacttg agtgctgttt tcgtatttgc actctgcggc gtactgccgt taaggcaaat 120  
cagttgtttg caagtttgag tgctattggg ggccggtgat tacatacctg tcttttgcac 180  
ct 182

<210> 11932  
<211> 397  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-A9

<400> 11932

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aacctattga ggatcgtacg acgattccaa gataacctaa tgcacataca gagggatact 120

ctcaaaaggc aaacattgat gcaacggtga aaaaattttc agataacttc acaattatgt 180

tgatccatta tgatggccgg acaactgagt gggatgaatt tgagcgggtca ataagggtctg 240

cccatgtgag tgtcacaaaa cagaccaa at ggtggtatgc caaacgattc ctacatcctg 300

acattggtgc ccgctacgac tacatattga tgtgagatga agatcttggc gtagaacatt 360

ctaattgcaga ggcgtacatt tagctcgtta ggaagca 397

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-H6

<400> 11933

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tgccctgccc ctgcgcgggg ctgcagggt tgtacggcgc tggcgccggc ctgacgacga 180

tgatgggctc cggcggggtg taccctacg cggagtacct gaggcagccg cagtgcagcc 240

cgctggcggc ggcgcctac tacgccgggt gtgggcagcc gagcgccatg ttccagccgc 300

tccggcaaca gtgctgccag cagcagatga ggatgatgga cgtgcagtcc gtcgcgcagc 360

agctgcagat gatgatgcag cttgagcgtg ccgctgccgc cagcagcagc ctgtacgagc 420

cagctctgat gcagcagcag cagc 444

<210> 11934

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-019-Q1-K1-G2



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gncatggcag ccaagatgct tgcattgttc gctctcctag ctctttgtgc aagcgccact 120

agtgcgaccc atattccagg gcacttgcca ccagtcatgc cattgggtac catgaaccca 180

tgcattgcagt actgcatgat gcaacagggg cttgccagct tgatggcgtg tccgtccctg 240

atgctgcagc aactgttggc cttaccgctt cagacgatgc cagtgatgat gccacagatg 300

atgacgccta acatgatgtc accattgatg atgccgagca tgatgtcacc aatgggtcttg 360

ccgagcatga tgtcgcaaat gatgatgcca caatgtcact gcgacgccgt ctgcagatt 420

atgctgcaac agcagttacc attcatg 447

<210> 11935

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 11935

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tcactatggt cgatggatcat gacaccaagg agcagacact cccttccacc tctggcatga 180

ccgattcttc gagcggcagc gcctcaagcg agcctacttt caaggggaac ccaggacgtg 240

ccctcaaaga ccgaagcagc cctgcactga ccgtgaaagc tacctacaat ggcgacaccg 300

tccggttcaa gtttgtgcca gcaaggggct ggtaccactt gctggaagag atagcaaaga 360

ggttcaagct gacggctgga gcattccagc tcanatacaa ggacgatgag gacgagtggg 420

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<212> DNA

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<400> 11936

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caagcggatg ctccggggaca tggccgcca ggaggagtcc cttgccgtac acgccactgc 180

tggggccgca gcaggggcac ttgccgtgc ggtcaccact cccctcgatg ttgtgaagac 240

gcagctacag tgccaggggtg tgtgcccgtg tgaacgcttc tcaagcagct caataggaga 300

cgtgtttaga acaatcataa agcgagatgg gtattccggg ctcatgaggg gatggaagcc 360

aagaatgctg ttccatgcac ctgcagctgc aatatgttgg tctacatacg aggcctctaa 420

agtcattttt c 431

<210> 11937

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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cctcaccctg tgtgaccaat gaagaagtcc agaaggctgc tgctgctctc aagggtctctg 120

accaccgccc tgccaccaac gttagtgcct gattggatgc ccagcagaag aagcttaacc 180

tccccatcct tcccaccact acaatcgggt cggtcccaca aaccgttgag ctccaggagg 240

tccgccgtga gtacaaggca aaaaagatct ctgaggagga atacgtcact gccatcaagg 300

aggaaatcaa caaggctcgtt aagctccaag aagagcttga cattgatgtg cttgtgcatg 360

gcgagcctga gagaaacgat atggttgagt acttcgggtga gcagctctcc ggttntgcgt 420

tcactgcaa tggtgggtg cagtct 446

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<213> Zea mays

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acaacgcctt cagcacctac ggcgaggtcc tcgagtcctaa gatcatcctc gatcgggaga 180  
cgcagaggtc ccgcggcttc ggcttcgtca ccttctccac ggaggacgcg atgcggaacg 240  
ccatcgaggg catgaacggc aaggagctgg acggccgcaa catcacgctc aacgaggccc 300  
agtcccgcgg cggccgtgga ggccgcccga gtgggtaccg tgggtggcacg tggaggcggc 360  
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<210> 11939

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-019-Q1-K1-G8

<400> 11939

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gatcttgatg gtacagaaag agagagtggg tggcttctgt gatgcaattt tggcagtttc 180  
aagcacagat taagccatgc cttgtactgt ttgaacacta ctgggacctg acttgagatt 240  
gagattgatg ttcgctcggg gcctaattca agcatatgca tatacaccaa aagtcatgat 300  
tgagcaatgc tgtggtgctt cagtgtggtc ttcccagttt cattcgggtga gtggtggatg 360  
aaggctntaa gttttattag caccgattac tgtatgttct ataacttcag taacatttct 420  
ggtagaaact atgtgggtag ctgatg 446

<210> 11940

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-G9

<400> 11940

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caagatattt tccctcctta tgctccttgc tctttctgca tgtgttgcta acgcgacaat 120  
 tttccctcaa tgctcacaag ctccctatagc ttcccttctt ccccatatcc ttccatcaat 180  
 gatagcttca gtatgtgaaa acccagctct tcagccctat aggctccaac aagcaatcgc 240  
 agcaagcaac atacctttat cacccttggt gtttcaacaa tcgccagccc tatctttggt 300  
 gcagtcattg gtacaaacca tcagggcaca gcagctgcag caactcgtgc tacctgtgat 360  
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 c 421

<210> 11941  
 <211> 431  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-019-Q1-K1-H10  
 <400> 11941

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 cgggatgcca ggacctggag tgagtgagcc ggtggccatg gttttctata ctctgctctg 300  
 ctctccctcg ccggcgttct tttcgtgtcc caatcttgaa ggacgacggg acggtgcctg 360  
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<210> 11942  
 <211> 415  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 11942

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cctgcgacga cctcctcacc aagtgcgccg ccacctgcaa gaactgcgtc cccgtctcca 180  
 cggacaaggg cgccaccaag tacagatgcc gcgacttcct ccccgaaaac tgcggctgca 240  
 agatccacta gactcatcca cagcggcaca gccgatggat ccttccatgc tcctacgtcc 300  
 gtccgccttg ctacaagcag gcagccacca ataagctagc tcttggtggn tgtttgcatg 360  
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<210> 11943

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-H12

<400> 11943

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 cgttccgagg tttcgctctt cggagcgcac caacgccacc cggagcgcact cgccaccggc 180  
 gcggagaagg agggcggagg ctaggcgatg gcggacgaga atgaggctgg gaagaaagag 240  
 gaagaggaat ttagcacagg ccctctgtca gtactaatga tgagtgttaa gaacaacacc 300  
 caggttctca tcaattgccg caacaacaag aagctgcttg gccgggttcg tgcttttgat 360  
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<210> 11944

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-H3

<400> 11944

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 ttattggcac aaaacatcag ggcacaacaa ctcggtgctag caaaccttgc tgcctactct 240  
 cagcaacaac agttaccttt ggtgcatttg ttggcacaaa acatcaaggc acaacaacta 300

caacaactcg tgctagcaaa ccttgctgcc tactctcagc aacaacagtt tctgccattc 360  
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<210> 11945  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-019-Q1-K1-H4  
<400> 11945

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taaagttttt tggatgatgt atgtggccaa ccagaaataa gaagttacat ttccagattt 180  
taatgtgata ttggtctcca aggggtgttcg ataattactt ttcctaagat tgggagtaac 240  
aagcttttaa tcaaaagata aataatataa aaaacaaaca agataaaatt gatgcatatg 300  
aaggcac 307

<210> 11946  
<211> 425  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 11946

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gctcaccgtt gggaaaaagg tgacatctgg aatgagtcca gctttcaatc tttatgggtg 180  
tgccttgatt gtgcttgag agtggaaacc accagtttat gataactctc atgggataaa 240  
attggttact gccaccacac gtcgaaattc tccaaatagt atagattcca agatacatca 300  
caacaatctt atcaacaata ttctggcaaa gatagaaggt aatcttgccc aggctgagga 360  
tgccattatg ctagataagg atggctttgt atcagaaaca nacgcaacan atatttttat 420  
ggtca 425

<210> 11947  
 <211> 423  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-019-Q1-K1-G12  
  
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 gtaccagctc tgactcagct agctgtggca aaccctgctg cctacttgca acagctgctt 180  
 ccattcaacc aactgactgt gtcgaactct gctgcgtacc tacaacagcg acaacagtta 240  
 cttaatccac tagcgggtggc taaccattg gtcgttgctt tcctacagca gcaacaattg 300  
 ctgccatata accagttctc tttgatgaac cctgccttgt tgtggcagca acccatcggt 360  
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 cat 423

<210> 11948  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-019-Q1-K1-E9  
  
 <400> 11948  
  
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 cttctcaagt caaaatatac tcaattacat gaacttggat ctgaaatcct cccaagagct 180  
 gtactagatc atagtgtgca agcatgcatt tttaacgggt attgggagga tgttgaaca 240  
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 tacgatccaa tgacaccttt cttactgca cccgatgct tgcctccgac gcaattggac 360  
 aagtgaaga tgaaatatgc atgtatctta catggctgct tactgagaga atgcaacatt 420  
 gag 423

<210> 11949

<211> 413  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-019-Q1-K1-F10

<400> 11949

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ctgccagcgc cagcgcgggg acctcctgcg tgccgggggtg ggccatcccg cacaaccgc 180
tcccagactg ccgctggtac gtgaccagcc ggacctgcgg catcggggccg cgctctccgt 240
ggccggagct gaagaggaga tgctgccggg agctggcgga catcccgcg tactgcccgt 300
gcacggcgct gagcatcctc atggacggcg cgatcccgcc gggcccgac gcgcagctgg 360
agggccgnct agaggacctg ccgggctgcc cgcgggaggt gcagagggga ttc 413
  
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<210> 11950  
 <211> 380  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-019-Q1-K1-F11

<400> 11950

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cacgccaagc gcgtcaccat catgcccagg gacatccagc tcgcccgcgg tatccgtggg 180
gagagggcct aggcgtcgtc ccggtggagg tggaagtagt agtggccgtt tctgtcatca 240
ctgtctggct agaaggtgta gagatgtgcc gggttctgta gtttgggtta tcggtcaaat 300
catgatgtag ttgggtctac cctgctgtaa tttaactatg actatgcaat ggcaatgaag 360
ttctcgggta tcagttcccg 380
  
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<210> 11951  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-019-Q1-K1-F12



<400> 11951

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ctgacccgctc tggaccacaa cagggctctt ggccagattt ctgagagact taatgtocaa 180  
gttagtgatg tgaagaatgt tatcatctgg ggtaaccact cgtcctctca gtaccctgat 240  
gttaaccatg ccacagtga gacttccact ggggagaagc ctgttcgtga gcttgtctct 300  
gatgacgagt ggcttaatgg tgaattcatc acaactgtcc aacagcgtgg tgctgcaatc 360  
attaaagcga gaaagttctc cagtgtctctc tcggctgcta gctctgcttg tgaccacatt 420  
cgtgattgg 429

<210> 11952

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-F2

<400> 11952

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gccccaggcc tgaggcctcc atcttcgggc ccttactggt ctacgagcac caccagagga 180  
ttatggattg gctggggcag aagcgcgcg agatgctgat gcagggtgctg ctgggtggcgt 240  
ctgctgtggc ggcgttcctg gtgggctacg tgcgcgcgga cttccagctc atgctgctcg 300  
tctacgccgg cggcgctcgtg ctcacagcgc tcgtcaccgt ccccaactgg cccttcttca 360  
accgtaacct gctcaagtg 379

<210> 11953

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-F3

<400> 11953

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 ccgtagagaa gtttaaaaac atcatggctg ttgacaagaa ggttgctgat ggtctgttga 180  
 gactcctcct tctgaaagga ccactagggg gctgtgtatt tacgggggat tatgagggga 240  
 atgcactcga tgaaacccta catgcattct gcgacaactg agaacatccc agttttggac 300  
 atcacttctg tatgctagta ctaggctatg tatcaatcag agaaaatatt gtggtgtaca 360  
 ttatcttcac tgcctcattg gtatatTTTT gtcagaaata atggtatatt ggtttaagtg 420  
 ctggtttgag tttgtag 437

<210> 11954  
 <211> 408  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-019-Q1-K1-F4  
 <400> 11954

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 ctcaactagct gctagtcca ttattccaca gttcatacca ccagttactt caatggcctt 180  
 cgaacaccca gctgtgcaag cctataggct acaacaagcg attgcagcga gcgtcttaca 240  
 acaaccaatt gcccaattgc gacaacaatc cttggcacat ttaacaatgc aaaccatcgg 300  
 aacgcaacag cgacaacagt tactaccagc actgatccac ctageccatg tgaaccctgt 360  
 cgctacttg caacagcatc tgcttgcac caaccactt gctctagc 408

<210> 11955  
 <211> 400  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-019-Q1-K1-F6  
 <400> 11955

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 cactctggaa cggtgcttac taattcgcac tgccttaca catgactcat cactattacc 180

tcaagacagt taccaccgag aaggacgaga tgattacat tgctggaaac aacggccaga 240  
 cgccgtcgta aattgatgtt caactccctt accagtacaa catccagctt gccaagaaca 300  
 tgacttgtat caagatcctt cggaatctca aagcacattg gttgaccac ggacatccac 360  
 taggacctct actacctcat taataatgtc attacgatta 400

<210> 11956

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-F7

<400> 11956

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 ccctcgccgc cgtttcctcc acgcgcagcg cacaaaagga gtccgtggct gacaacgccg 180  
 ggatgttggc aggcggcatc aaggacgtgc cggcgaacga gaacgacctc cagctccagg 240  
 agctcgcgcg ctctcgccgc aatgagcaca accaaaaggc caatgctctt ctgggggttcg 300  
 agaagcttgt gaaggccaag acacaagttg ttgctggcac gatgtactat ctactattg 360  
 aagtgaagga tggcgtagtc aagaagcttt atgaagctaa ggtctgggag aagccatggg 420  
 agaacttcaa g 431

<210> 11957

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-F8

<400> 11957

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 aattatacat tgccgatgat cactagcaga tcccagcatg aatgcactat acagtttggg 120  
 tcattactat atcggcgtgt ccataaagac agatcctagt aatcactgat actcccagga 180  
 gctctactca tacataccgc gaaactatcc agtgtagtcg catctctgaa gtcgacggcc 240  
 acaatcaaac tggatttgaa ctcagatcta tccat 275

<210> 11958  
<211> 414  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-F9

<400> 11958

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ctgacggcgt cggccatggt ccgcgggaag atgagcacca aggaggtgga cgagcagatg 180  
ctgaacgtgc agaacaagaa ctgcctctac ttcgtggagt ggatcccgaa caacgtgaag 240  
tcgagcgtgt gcgacatccc cccacgggc ctggcgatgg cgtccacgtt cgtcggcaac 300  
tccacctga tccaggagat gttccggcgc gtcagcgagc agttcacggc catgttccgg 360  
cgcaaggcct tctgcactg gtacaccggg gagggcatgg acgagatgga gttc 414

<210> 11959  
<211> 446  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-019-Q1-K1-G1

<400> 11959

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cttcagtcga ccctaattgc acttatatgt ggatgtcttt gactctagtg aagacttcat 180  
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ggttacattc tggtatgatg cgctacatgg tgggtgctgga gcttatgcc aacacatctt 300  
tgatgaaaaa cttgatgctg actaaaagct aactgaccaa ttgtgatcca gaacatgact 360  
ttggaagtgg tcatgcggat cctaacctta cctatgtca agactcgggt gaactgatac 420  
gtcttgaaa gtcattctca aatgtt 446

<210> 11960

<211> 434  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-G10

<400> 11960

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accttcggtg ctttcgcata tggcatgtac caggctcgcc aggggaacaa ggtccgcccg 180  
gcgctcaaag aagagaaaat tgctgctcgc agtgctatac tgccgatgct ccaagcagaa 240  
gaggatgaaa gatttgtcaa agagtggaag aagtgtcttg aggaggaggc gaggatcatg 300  
aaagacgttc caggggtggaa ggtcggcgag agcgtgtaca actctgggaa atggatgccc 360  
ccggtactg gtgagctccg ccctgagggtt tggtaagggc ctgttgagg cactgaatgc 420  
catcatgtca cggg 434

<210> 11961  
<211> 361  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-G11

<400> 11961

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agcgccggaa aatgaggctg agatctaagt aggcgcattt tgtgaccgag gatggcgagc 180  
ttctcctgca ccatggctgt gacgcgttgg gatgattggc tacctttgta gacgtgcttt 240  
gctgtagacg taggcgatgt aaaccgtgct ttttgatcaa ttctagtatg ttctgagact 300  
gggtttatat tgtaatctga ggataatcat atgatgctat aaggttatcg atattactgt 360  
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<210> 11962  
<211> 402  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-E8

<400> 11962

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cgttcccgt agaggtggcc cgcaagcaga tgcaggtggg cgctgtgggc ggtaggcacg 180  
tgtaccagaa cgtcctccac gctatctact gcatcctcaa gaaggagggc gccggcggcc 240  
tgtaccgagg tctcggacct agctgcatca agctcatgcc cgccgtcggc atcgacttca 300  
tgtgtctacga ggcgtgcaag aagatcctcg tcgacaagga cgatgaggag gaggaggacg 360  
aagccggcgg cggagaggat gacaagaaaa aggttgaatg at 402

<210> 11963

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-D3

<400> 11963

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ggttgctgat gacaacgtcc actacttcgt cttcaaactc ggcaaaaatg tccttattga 180  
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caccactctt cagagcgacg aggaagtcgt gattgctaaa atggacgcga ctgccaatga 300  
cgttcccagt gagtttgacg tccaaggcta ctcgaccttg tacttctgta ccccgagcgg 360  
gaaggtgaca tcctacgaca gcggcaggac ggcgacgac atgcgcgact tcatcaagaa 420  
gagcaaggag accgcatgcc 440

<210> 11964

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-D4

<400> 11964

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aacaacttgt gctagcaaac cttgctgcct actctcagca acagcagttt cttccattca 180  
accaactagc tgcattgaac tctgcttctt atttgcaaca acaacaacta ccatttcagc 240  
cagctatctg ctgcctaccc tcagcaattt cttccattca accaactgac agcattgaac 300  
tctcctgctt atttacagca gcaacaacta ctaccattca gccagctagc tgggtgtgagc 360  
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gctggcacc tcttacaact gcaacaat 448

<210> 11965  
<211> 422  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-D5

<400> 11965

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aacagctgca acagtttctg ccagcgtcga gtcaactagc catgggtgaac cctgccgcct 180  
acctacaaca gcaacaactg ctttcatcta gcccgtctgc tgtggccaat gcacctacat 240  
acctgcaaca acaattgttg caacagattg taccagctct gactcagcta gttgtggcaa 300  
accctgctgc ctacttgcaa cagctgcttc cattcaacca actgactatg tcgaactctg 360  
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tc 422

<210> 11966  
<211> 366  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-D6

<400> 11966

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atccgctctc aggttaacgat gtcctgtgcg ccacctccg gttgggcccgt tgcagagtgg 180  
acagttgacg ccggcccgtt agtgatgggg ggccagggtt cggggatttt ctcgccggg 240  
accattgttt cggctctctt ttaatataat accgggaggg cggctcttcc ctccccggcc 300  
gagtttttag tactataaag taaaaattaa agaaaaacaa catacacacg aatgacatgg 360  
acgaac 366

<210> 11967  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-D8

<400> 11967

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atgactatga tggcgattgc atgcaagaag acggtgaaat tgaggagat tctagctgct 180  
atcgtgttct atcaagcaaa acattagcat atgttggtga agcacttatt ggtgtctatt 240  
atgtagctgg aggtaaaatt gctacaaacc atctgatgaa atggatcgtt attaatgcag 300  
agctggatcc tcaagagatc ccatcttcga agccatataa catacctgag atcataatta 360  
aaagcatcaa ttttgacaca ttataggggtg cattgtgtat cactgcttag aataaaggct 420  
tacttggtga agcta 435

<210> 11968  
<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-D9

<400> 11968

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agccatggtg atgtcgttcc tgctgcagag ctctcgttc ggggtcctgc aggcagccac 180



catggaccgc cgcgtctgcg caacaaggtt ccagataccc gcgggctcga tctcgggtctt 240  
cgagatcctg accttcacgg cgtgggtcaag ctgctacgac gcctgcatcg tgccagtcct 300  
ccggaggatg acggagcggc agcgcgtgct gacgctgaag cagcgcacatg gagtcggcgt 360  
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cgccg 425

<210> 11969  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-E11

<400> 11969

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gcgctcagtc aactagccat ggtgaaccct gccgtctacc tacaacagca acaactgctt 180  
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ctgcttccat tcaaccaact gactgtgtcg aactctgctg cgtacctaca acagcgacaa 360  
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caattgctac cataca 436

<210> 11970  
<211> 414  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-E12

<400> 11970

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acgccaaacg cgaactcccg tgccgtgacc tcccgatctc aggcgatggc cgcgcggcgc 120  
ctcggatccc ccgcctctag gtggctgcgg ccgtccgcgc tgctcctcct ggtcgcttct 180  
gctctcctct cggccccgtc gccggccccg gcgctgcggt tcgacctcga gtccggccac 240

accaagtgca tctccgacga gatcaagggt aacgccatgg ccgtcggcaa gtaccacatc 300  
 gtcagccccg accccaactt ccccgatgcc cagctccccg aatcgacccg catctccctc 360  
 aggggtgacgt cgccgtacgg gaacagcatg cactacgogg agaacgtgca gtcg 414

<210> 11971  
 <211> 423  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-E2

<400> 11971

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 ctggtttgag atgcatcgta agcaaccagg ataagtggta cctagatcac ttggatgcta 180  
 catgggaagg attttacacg aatgaaccac tgacaaatat ctacaacccg gagcagcaga 240  
 aattgggtact tgggtggtag gtatgcatgt ggggcgaaca cattgatgca tcagacattc 300  
 agcagacaat ttggccacgt gctgcagcag ctgcagagcg gctatggaca ccaattgaga 360  
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 atc 423

<210> 11972  
 <211> 439  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-E3

<400> 11972

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 gtggtcgcgg agcaggcgtg ctacctgccg tgcaccgccg acgggctgcc ggtcatcggg 180  
 gagataccag gcgtgaaagg gtgctatgtg gccacgggcc acagctgctg gggtatcctc 240  
 aatgggtccg ccaccggcgc agccctcgcc gagctcatcc tggacggcaa gtccaagatc 300  
 gttgatctcg agcctttcag cccggcaagg tttctcaaga gaaggagcag gcgtggagtc 360

tgaccgtgtg aatgttcaga ttcaagctcg ctactgaata aaacactctt ggttctcccc 420  
 ttgcatgac tgatgagtg 439

<210> 11973  
 <211> 420  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-E5

<400> 11973

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 cgacgcccta cggctcgtca cagtgccagg cgctgcagca gcagtgtgt caccagatca 180  
 tgcaggcgga gccgctgcac cgttaccagg cgacatacgg tgtggctctg cagtgttcc 240  
 tgcagcagca gccgcagggc gagctcgagg cgctgatggc ggcccaggta gcgcagcatc 300  
 tgactgcgat gtgcggtctg cagctgcagc agccagatcc ctgcccttgc aacgcagctg 360  
 ccggcggtgt ctactactga agaaactatg tactgtagta ataatgtaat ggaacccgtg 420

<210> 11974  
 <211> 194  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-E6

<400> 11974

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 aattagttga accgctaata gcacaatctg atcttaatat aaacgcacac tctcatatgc 180  
 tcaactacat acag 194

<210> 11975  
 <211> 317  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-E7

<400> 11975

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tcgtcagttg atccgcgaat cgggtctgtct gaactcagca tctactcaca ctctcacatg 180  
ctcagctagt acagaccgcc acatacacc ctgtgtctga aactcggcgg ttgtctttta 240  
gcttcccaat gcatgtgtag tctgatctct ctatcatgaa aacgcgcata tcatttagaa 300  
tgaactgcag ttggaaa 317

<210> 11976

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-D2

<400> 11976

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gagagtcccg ggctaatggt tttggtcatg aggtcaaaat gagaattttg atgggaacct 180  
atgctctttc tgctgggtac tatgatgcat actacaaacg agcacaacag gtcaggacac 240  
tggttaagca aagcttcaaa gatgctttgg aaagatacga cattttaatc tcaccagctg 300  
cgccgtcagc agcctacaag ataggtgaaa agataaatga cccgttagcc atgtatgcag 360  
gagatatcat ga 372

<210> 11977

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-B6

<400> 11977

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atgcgcccac gcatgggatg ctggacaagc ttggcggagc ttttgctccc aagccatctt 180

ctggacctca caagtctagg gagtgcctgc cactgacccat catcatcagg aacaggctca 240  
 agtatgctct tacataccgt gaggtcattt ccatacctgat gcaacgccat gtactagttg 300  
 atggcaaggt caggacagac aagacctacc ctgctgggtt catggatgtc atttccatcc 360  
 ccaagaccaa tgagaactac aggtgctgt acgataccaa gggccgcttc cgccttcacc 420  
 caatcaggga tgaggatgct 440

<210> 11978  
 <211> 355  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-B7

<400> 11978

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 atggaagtga cagcattgag agtgctaata aggagattgc cctgtgggttc cccgagggcc 180  
 ctgctgattg gcagagcagc cagcaccctt ggatctacga gaagtaaaca tggaaagttt 240  
 cacatcaaac cttgagagcc agaggaagca tgtcaccatt tgtgcttttag caatgttttc 300  
 gaaaagatta tgatctgtat cttggaacct tatttcaatg gaccaaattt ctttc 355

<210> 11979  
 <211> 338  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-B8

<400> 11979

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 cttccgttct accagcagtt tgtggctaac cccgcaacct ttttacaact gcaacagttg 180  
 ctgccctttg tccaacttgc tttgacaaac ccagcagcct tctaccaaca acacatcatt 240  
 ggcggtgccc tcttttagat tgcttattag ttgtcattca ataatgaagt tttttggctg 300  
 atgtatgtgg cctcctagaa ataagaagtt atatttcc 338

<210> 11980  
 <211> 420  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-B9

<400> 11980

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 aaagcaaagg tataccgcga agcacatctt gatcgcgact gtagccggtg ctcaacgtgt 180  
 caacatacct ggaaaggatc tggctattac ttctgatgag gccttgagct tggaggagct 240  
 tccaaagcgc gctgtaatcc tgggtggcgg atatattgct gttgaatttg cttctatctg 300  
 gagggggatg ggtgctgaag tagatttggt ttatcgaaaa gatcttcctt taagagggtt 360  
 tgatgatgag atgagagcta ttgttgcaag caaccttgag ggaaggggaa tcaagttgca 420

<210> 11981  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-C12

<400> 11981

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 gcgaggcatg gtggagaagg cgaggacat gccgcgcagg ctggagatcc cccagtggaa 180  
 ggccgacggc cttccgtcgc cgacgagccc gctggaccgc gcgtcgccgt cgcgccgggg 240  
 gtggcgccac cgcgacgccg taggaggagg cgtgggggtc gggatcctgg cggcgctcga 300  
 ggccgagggc ccgcccagc ccgcccagc ggtgtccatc ccgcccgcgc cggcgcggtc 360  
 tgaggtgtcg gagctcgggt gcagcgggcg ctgcgccacc agcctgtgcg gcggcg 416

<210> 11982  
 <211> 412  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-C2

<400> 11982

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ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc cgcacaaccc 180  
gtccccgagc tgccgctggt acgtgaccag ccggacctgc ggcacgggc cgcgcctccc 240  
gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatccccg cgtactgccg 300  
gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccc cggggcccgg acgcgcagct 360  
ggagggccgc ctagaggacc tgccgggctg cccgcgggag gtgcagaggg ga 412

<210> 11983

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-019-Q1-K1-C3

<400> 11983

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ccgagaagat gggacttgac tacatggatg ttgaggctct caagaaaatg aacaagaaca 120  
agaagcttgt taagaggctt gccaagaagt accatgcttt cttggcatca gaggccatca 180  
tcaagcagat tccccgtctc cttggctcctg gtctcaacaa ggcaggcaag tccccgaccc 240  
tggttactca ccaggaatcc ctcgagtcca aggtgaacga gactaaggca accgtcaagt 300  
tccagctcaa gaaggtectt tgcattgggtg tcgccgtcgg caacttggcg atggaggaga 360  
agcagatcca gcagaacatc cagatgagcg tcaacttnct tgtttccctt ctgaagaaga 420  
actggcagaa tgtgagatg 439

<210> 11984

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-C4

<400> 11984

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 cggtatccag gtcggaaacg cgtgctgaga gctgtactgc cttgagcatg gcattcaggc 180  
 tgacggtcag atgcccgggtg acaagaccat tgggggaggt gatgatgctt tcaacacctt 240  
 cttcagttag actggtgctg ggaaacacgt gccccgagct gtttttgctg accttgaacc 300  
 cactgtcatc gatgaggtga ggactggcac ctaccgccag ctcttccacc ctgagcagct 360  
 catcagtggg aaagaagatg cagccaacaa ctttgcccgt ggtcactaca ccattggcaa 420  
 ggaagatg 428

<210> 11985  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-C5

<400> 11985

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 ccccgcggtg cgcgggatca aggagccaga gagcgggacg cagcgagcgt tccgccggag 180  
 atcgagaccg tagctagggt ttgaggcgcc gggctgcggt ggacgagatg tcgacgccgg 240  
 cgaggaagcg gctgatgcgg gacttcaggc gcctgcagca ggaccgccccc gccgggatca 300  
 gcggcgcgcc gcacgacaac aacatcatgc tctggaacgc cgtcatattc gggccggatg 360  
 atacgccgtg ggacggtggc acgttcaagc ttaccttgca gtttacagaa gattacccaa 420  
 acaagc 426

<210> 11986  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-C6

<400> 11986

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tatttttccct gggttctgat acttgctcca tgatgtccaa tgggggagac ggctgggtga 120  
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 tgaagcatgc aggcgtcatt ggatggggag ccctgacgat ggagctgtca tccttcgtgg 240  
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 tgttctaadc caaacctgct gctgctgggt ctcttgccag cgtggcactc tgtgcatggg 360  
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<210> 11987  
 <211> 415  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-019-Q1-K1-C9  
 <400> 11987

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 tgcagatgcc ctgccccctgc gcggggctgc agggcttgta cggcgctggc gccggcctga 180  
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 gcagcccgtt ggcggcggcg ccctactacg ccgggtgtgg gcagccgagc gccatgttcc 300  
 agccgctccg gcaacagtgc tgccagcagc agatgaggat gatggacgtg cagtccgtcg 360  
 cgcagcagct gcagatgatg atgcagcttg agcgtgccgc tgccgncagc agcag 415

<210> 11988  
 <211> 259  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-019-Q1-K1-D10  
 <400> 11988

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 ctgacgctga cgctcagacc ttgtgatgct cgtcatatga tgctgcatga gcgccggcac 120

cacgtatgaa gttactaaga atgaattcac cgtgggacta gcgatcagtt gcctgttata 180  
 caatcgagaa gtcgctgga aaactaccat aatgacgagc tgagctatca gaagacaatt 240  
 gattccgtga tatatacaa 259

<210> 11989

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-D11

<400> 11989

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 ttttccctca atgctcacia gctcctatag ctcccttct tccccatac cttccatcaa 180  
 tgatagcttc agtatgtgaa aaccagctc ttcagcccta taggctcaa caagcaatcg 240  
 cagcaagcaa cataccttta tcacccttgt tgtttcaaca atcgccagcc ctatctttgg 300  
 tgcagtcatt ggtacaaacc atcagggcac agcagctgca gcaactcgtg ctacctgtga 360  
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 tcaa 424

<210> 11990

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-A12

<400> 11990

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 tcgaaggcgg ccaagcaact atgctggata ttgattttgg cacttatcca tttgtgactt 180  
 cttctagccc ttcagctggc gggatatgca caggcctagg gattgctcca agggcaattg 240  
 gcgacctgat tggagtggtc aaagcttaca catctagagt cggctctggc cctttcccaa 300  
 ctgaactatt tggagaggaa ggtgatcgcc ttaggaaagc tggaatggaa tttggcacia 360

caacaggtcg cccaaggcgt tgcggctggc ttgacattgt tgcgcttaag caca 414

<210> 11991  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-A2

<400> 11991

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gcctgggcca ccagcaacga gtcgctggag aatgccttcg cctcctacgg cgagatcctc 180  
gactccaagg tcatacaccga ccgggagacg gggagggtccc gcggcttcag cttcgttacc 240  
ttctcctccg agaactccat gctcgacgct atcgagaaca tgaacggcaa ggagctcgac 300  
ggccgtaaca tcaccgttaa ccaggcccag tcccgtggcg gtggcggtgg cggcggtggc 360  
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ggcgcggtg 430

<210> 11992  
<211> 431  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-A3

<400> 11992

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gctgcgcctg gagatggacc cgatggacat cgtcggcaag tccaaggagg acgtctccct 180  
cccaaataag ttgtttaaaa tcttctactg ctgattgaac tttctgcttt gcacttttagc 240  
aacaatgttt aagataatta aggagatgct tcctcctgat gtacgagtgg caagagatgc 300  
acaggatctt cttgttgaat gctgtgtaga gttcatcaat ctcttttcgt ctgaatcgaa 360  
tgaagtgtgc agcagagaag agaaaaaac gattgctcct gagcatgtta tcaaggctct 420  
aagtgatctt g 431

<210> 11993  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-A4

<400> 11993

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tgctcacaag ctctatagc ttcccttctt ccccatacc ttccatcaat gatagcttca  180
gtatgtgaaa acccagctct tcagccctat aggctccaac aagcaatcgc agcaagcaac  240
atacctttat cacccttggt gtttcaacaa tcgccagccc tatctttggt gcagtcattg  300
gtacaaacca tcagggcaca gcagctgcag caactcgtgc tacctgtgat caaccaagta  360
gctctggcaa acctttctcc ctactctcag caacaacaat ttcttccatt caaccaactg  420
tctacactg                                     429
  
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<210> 11994  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-A5

<400> 11994

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caatgctcac aagctcctat agcttccctt cttcccccat accttccatc aatgatagct  180
tcagtatgtg aaaaccagc tcttcagccc tataggctcc aacaagcaat cgcagcaagc  240
aacatacctt tatcaccctt gttgtttcaa caatcgccag ccctatcttt ggtgcagtca  300
ttggtacaaa ccatcagggc acagcagctg cagcaactcg tgctacctgt gatcaaccaa  360
gtagctctgg caaacctttc tccctactct cagcaacaac aaatttcttc cattcaacca  420
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<210> 11995

<211> 435  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-019-Q1-K1-A6  
  
 <400> 11995

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atcgaaattg gcatgcttga gaagcttggg aaatatgggtg aaagcagatc caggtctcat  180
cccaatcccc aaaggagggg tcctattaca agcagttgcc caagtctagt gctatcaagg  240
tgattgattt cggtagcact acttatgatc aacatgatca gagttatgtg gtatcgacga  300
ggcactatcg ggctccagaa gttatattgg gacatggatg gagttacca tgtgatatct  360
ggagtgttgg ttgtattctt gttgagctnt gcacgggtga ggcgttattc cagactcacg  420
aaaacttgga acatc                                                    435
  
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<210> 11996  
 <211> 398  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-019-Q1-K1-A7  
  
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ctgactgctg tgcacgatgg catcttgaag gatgttgtct acccagctga gattgtgggg  120
aagcgtgtca gataccgtct ggatgggtcc aagattatca agattttatt ggacccaaag  180
gagaggaaca aactgaata caagctggag acctgcactg cggctctaccg caagctgtgt  240
gggaaagatg tggactttga gtaccctatg accgaatatg cataaatatg atgccctctg  300
gatatctcca ctctatttcg ttgattctga atgttatgtt gggctctccct atgtacttca  360
aaaaacatag ttgtgatgct aaagttgtct aggaattt                            398
  
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<210> 11997  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-A8

<400> 11997

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cacaatgctc acttgctaca agttccataa ttacacagta tctcccacca attacttcaa 180  
tggtgcttga acaccagat atgcacgcct ataggctcca acaagcaatc gccgctagcg 240  
tctaacaaca gccaatattc caggagcaac aacaatactt ggctcatata acaatacaat 300  
ccatctcatc gcacagcat ctacaatttc taccagcact gagccaccta gccatggtga 360  
accctgtcgg ctacttgcaa cagctgatgc ttgcatcaaa cccacttgct atggcaaa 418

<210> 11998

<211> 101

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-019-Q1-K1-B1

<400> 11998

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tgtaaacata cttgtctcgg aagttttttt ttttttgggc t 101

<210> 11999

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-B11

<400> 11999

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agtagctctg gcaaaccctt ctccctactc tccgcaacaa caatttcttc cattcaacca 180  
actgtctaca ctgaaccctg ctgcttattt gcagcaacaa ctattaccat ttagccagct 240  
agctactgcc tactctcaac aacaacaact tcttccattt aaccaattgg ccgcactgaa 300

ccccgctgct tatttgcagc agcaaatact actaccattt agccagctag ctacagcaag 360  
 ccgtgcttcc ttcttgacac aacaacagtt gctgccgttc taccagcagt ttg 413

<210> 12000  
 <211> 399  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-B12

<400> 12000

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 ttgctggacc aagtgtgggc agtgagacta atgttggttg actaacgttg gatcgagagg 180  
 cttgtgaagt tcagtcacca ccttctggta cgtcagtaca tggaagcggg aaaaagagga 240  
 agaaaagtca agttgcaagt gttttggatg actatttggg gcacaagatg aaccaaacag 300  
 ataagactgt ggagggcgttc cttgagaaga agactcgtgg agaggagtct atggataggt 360  
 gtatccacat atttgaagct atggaggact tgacagatg 399

<210> 12001  
 <211> 404  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-B2

<400> 12001

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 gttcggcaac ggcaatgcc aagtgacagt caccaaggag ccgaacaacc tctacaacat 180  
 ccactccttc aaacactcgg gtttggcgaa caagaagact gtgacgatcc agccagctgc 240  
 aaaggactcg gctgtggtcc tctctactac caagaccaag aagcagaacg cacctgcgaa 300  
 gctcagccac aagtctgtga tgcgcaagga gttccgcaag atggccaaag ctgtgaaaaa 360  
 cccagggttag tgacaactac tacagggctg atctgaccaa gccca 404

<210> 12002

<211> 442  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-019-Q1-K1-B3  
  
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 cctcgcggcc gtcttgaggt acctcgccgc tgaggctctg gagctcgccg gcaacgctgc 180  
 caaggacaac aagaagacgc gcatcgctcc gcgccacgtg ctgctggcga tccgcaacga 240  
 cgaggagctc gggaagctgc tgaccggcgt gaccatcgcc cacggcggcg tgttgcccaa 300  
 catcaacccg gtctgtctgc ccaagaagac ggcggagaag gcgtccagcg gcgggagcaa 360  
 ggaggccaag tcgccaaga aggccgtcaa gtcccccaag aaggcatagg gtttgggagg 420  
 cggatcccga tgtggcatgt gt 442

<210> 12003  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-019-Q1-K1-B4  
  
 <400> 12003  
  
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 cctcgcggcc gtcttgaggt acctcgccgc tgaggctctg gagctcgccg gctacgctgc 180  
 caaggacaac aagaagacgc gcatcgctcc gcgccacgtg ctgctggcga tccgcaacga 240  
 cgaggagctc gggaagctgc tgaccggcgt gaccatcgcc cacggcggcg tgttgcccaa 300  
 catcaacccg gtctgtctgc ccaagaagac ggcggagaag gcgtccagcg gcgggagcaa 360  
 ggaggccaag tcgccaaga aggccgcaa gttcccccaag aaggcatatg gtttggaggc 420  
 ggatccgatg ttgacatgtg t 441

<210> 12004  
 <211> 432  
 <212> DNA



<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-A11

<400> 12004

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tgctctcaaa tatgaaaatg atgctggcaa gaaggaaatt cagctgcagc ttgagaagat  180
gaagaaatat gcttctgtta tccgtgtcat tgctcatacc cagattagga agatgaaggg  240
tttgaagcag aagaaggctc acctgatgga gattcaggtc aatgggtgga ccattgctga  300
caaggtggac tatggctaca aattctttga gaaagaggtc cctgttgatg ctgtcttcca  360
gaaggatgag atgattgaca tcattgggtgt gaccaagggg aaaggttatg aggggtgtgg  420
cactcgttgg gg                                                             432

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<210> 12005

<211> 396

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-018-Q1-K1-G6

<400> 12005

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gcaatgctca caagctccta tagcttcctt tcttccccca tacctctcat cagcgggtgc  180
ttcagtatgt gaaaacccaa ttcttcaacc ctacaggatc caacaggcaa tcgcagcagg  240
catcttacct ttatcacctt tgttcctcca acaaccgtca tccctattac agcagttacc  300
tttggtgcat ttgttggcac aaaacatcat ggcacaacaa ctacaacaac ttgtgctagc  360
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<210> 12006

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-G7

<400> 12006

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tcctctggta tattcatgga tgatgaggtg tttctgttta atcctctgat tcacctgtaa 180

ccatgtatca tgtaacgtgc gcgtttatgt cctactgatt tctgcagctg tatttatattt 240

acttgatagc ttactatcga catatgatca tgctactatc attcatatga taacaattac 300

gtgggggtgca tttgttggtc caaatcattt tttctcatta tcttctttct cttttgcttt 360

ctaactcttt ctttctactt ttatcttctt tcttttattt ttctttctac ttatttttct 420

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<210> 12007

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-G8

<400> 12007

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cacaagctcc gagecgtagg ttgcctctgg ctaggtggga tcagcagttc gatcgctac 180

aactggtcgc ggcccaatat gaagactagc gtcaagatca tccacgcaag gttgcatgcg 240

caggctctaa ccttagctgc attagttggt tctgcatgcg tggagtacta cgaccagaag 300

tatggttctt ctgggccaag ggtggacaag tacacaagcc aatatctggc ccattcgcat 360

aaagattaat gttcccatgt tggtttattc tctttgac 398

<210> 12008

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-G9

<400> 12008

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atctcgctcg tgggtcgatc tcaactgagcc ctgcagctc ttctctccac ttcttgcgtt 120  
 ctccatcctc ettcttcgct gataggctac gccgcttgct agcctgcgcg cgccgcagcc 180  
 taaccctgtg tgcaccctgt tctaaccct gccgtgtgtcc accgtcgact ggcttgcgtg 240  
 cgctccaca tgcgtctaac actgctagc 269

<210> 12009  
 <211> 266  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-H1

<400> 12009

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 gtatgacact gtacactgac agtgaatata ccaacatgtc taggtgattg actcatatac 180  
 ctttatatcc tatgagaagg accttattga gctttacagc cataactctg acgatatctc 240  
 atgaaaaccg acatgcgctg aatatt 266

<210> 12010  
 <211> 342  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-H10

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 ttactccgct ctagactacg acggtgagta caaccgcccg taccgcaact aggttgtgcc 180  
 ctacatagac atcatcatca acatgatcgc caagccgccc gcgaggtcgt ctaagacggt 240  
 ctccaacaga ggcggaggct caggggtggg cttgacatca tgcttgagcg atacgcactt 300  
 gcagaggctg agatctacgg ccagctcttc ggcttactca ac 342

<210> 12011  
 <211> 366

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-018-Q1-K1-H11  
  
 <400> 12011  
  
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 cgagcggcgg gaactccgac gagcttgccg tggaggttct ctgcccgggtg ttccgcccgg 180  
 cggcgtttgg ctcatcgtcg tcacagccag cagcaaagga catcagctcc accgtcgtcg 240  
 tcaccaaggt cggagtgtgg ggtggagagg gagggtcggc gcaggacatc gtgacgacgg 300  
 atccgtcgag gcgtctgcag agcctgaccg ttcgtgctgt ctttgccgtg gacttcattg 360  
 agttta 366

<210> 12012  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 12012  
  
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 ctcaaaagct cctatagctt cccttcttcc ccgtacctc tcaccagcgg tgtcttcggt 180  
 atgtgaaaac ccaattcttc aaccctatag gatccaacag gcaatcgcag ctggcatctt 240  
 acctttatca cccttggttc tccaacaatc atcagcccta ttacagcagt tacctttggt 300  
 gcattttattg gcacaaaaca tcagggcaca acaactacaa caacttgtgc tagcaaacct 360  
 tgctgcctac tctcagcaac agcagtttct tccattcaac caactntctg cattgaactc 420  
 tgct 424

<210> 12013  
 <211> 417  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-H4

<400> 12013

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attgtaccat ctcaagttca tatactagat tcgaatcctt ccgctacagc acatgaagtc 120  
aacattgtcg gtagcataaa cgatgatgac gaaaagagtc aggatggaaa aagcagtgc 180  
gatcttgctt catacgaggt aaaagagatg gttgtcaagg ataactttga agaaaagcag 240  
cagaccgaag aggtcattgt agatcccact ccacatgaag ccaacaactt tcccagtacc 300  
gataatcacg aggaaaatga gcagaacaaa gaaattgttg cagacaccac ttcacacaag 360  
ataagtgtcg tacaaagcat gggtagtact gaagaaaagg aacatattga agatttc 417

<210> 12014

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-H5

<400> 12014

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agagatatgc atgatagcaa acattgggcc tgagaccgtt gaagaggttt acgcactagt 180  
gccatctctc aaggctaata ggtcagctat cgaagggttc gtcaccgagg ttcttaccgc 240  
cctcgcaaac ataaaagctg ctaagtgaat ctccaatgga actagaccga caataaatcg 300  
gaagcagctg tcttggtgat cgaggagcgc ggaatctgca aactggccct tcagtgtttt 360  
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<210> 12015

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-H6

<400> 12015

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tcaattcatt ctcatgcaaa caagccatta aacctcttaa aaaatgtcgg cccatctata 120  
gaaacctatc catcataccc aaccttgacac cttataccgt ttaaattgttt acgcactaat 180  
tccatcactc accgctaata ttccacctat cgaatgttca atcac 225

<210> 12016  
<211> 415  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-H7

<400> 12016

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gggcgcaagg tcggcggggc aaggaagaag tcggtgtcga ggtccgtgaa ggccgggctc 180  
cagttccccg tcggccgcat cgggcgctac ttgaagaagg gccgctacgc gcagcgtgtc 240  
ggcaccggcg cccccgtcta cctcgccgct gtcctcgaat acctcgccgc tgaggttctg 300  
gagctcgtcg gtaatgctgc cagggacaac aagaagactc gcattattcc gcgccacgtg 360  
cttctggcga tccggaacga cgaggagctt gggaagctgt tgggcggcgt gacca 415

<210> 12017  
<211> 441  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-A1

<400> 12017

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attcttcaac cctacaggat ccaacaggca atcgcagcag gcattctacc tttatcacc 180  
ttgttcctcc aacaaccgtc agccctatta cagcagttac ctttgggtgca tttgttggca 240  
caaaacatca aggcaaca actacaaca cttgtgctag gaaaccttgc tgcctactct 300  
cagcaacagc agtttcttcc attcaacaa ctggctgcat tgaactctgc tgcttatttg 360  
caacaacaac taccattcag tcagctagct gctgcctacc cccagcaatt tcttccattc 420

aaccaacttg cagcattgaa c

441

<210> 12018

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-019-Q1-K1-A10

<400> 12018

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aatggctcaa atgaacaggc agctaaatct gccaggggtt cagaggataa tgcaagagtt 120

tgagcggcag aacgagagga tggagatggt gagcgaagtg atgggagatg ccatagatga 180

tgctttggaa ggagatgagg aagaagaaga aactgaggag cttgtgaatc aagtacttga 240

tgaaattggc attgatatca accaagagct tgttggagcc ccgtcggccg ctgttgctca 300

acctgcttca gcggaaggg ttgccaggc tgaaagtgct gggaaatgctg aactggaat 360

cgacgccgat ttgcaggcaa ggctggacaa tctgaggaga atgtangtgc tacaccagc 419

<210> 12019

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-G5

<400> 12019

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aagaaacact cagatgtgtt ctgtgatatt tcagaattag atttctttct atatgctaca 120

gatttgata gtgaagaact tgaactgaag gagcagaaac ccattacgaa ggctcaatca 180

ggaggtgatt caagtggcaa cagatcgaat gattgctact tccccggcct tcatgatgat 240

ctgtctcaag actgccttgc ttgggcaagc atatcatact acccttcctt ttcttgtctg 300

aacaaaagat tcaatttggt aattaacagt ggatattttt actgactgct taatatatat 360

tgtattgttg agctctgttt tatttatctt tttattttta tctctattaa tctttttttt 420

tt 422

<210> 12020  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-E7

<400> 12020

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atcaagggttc caaaggctct gtttggcggc acaggcaact atgccagtgc actgttcctc  180
acagcagcta aatctaatagc attggacaaa gttgaatctg agattaaagc tattgtagag  240
gcttccaaga agagcccgtt gttttctcaa ttcataaagg acttgtcagt tccaaaagcg  300
accaggggtga aggctatagc cgaaatattt gctgacgctg gggtttcaga tgttacaaag  360
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agatttggtt                                     429
  
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<210> 12021  
 <211> 263  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-E8

<400> 12021

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cgttagctgc tggcgctggc gccactgcaa gggcaggcgg tacaacctgt gcgaggacat  120
gaagttcttc gacacccgcg cgggtgcacg ctagctggct aaccaagtgg tgcacccggc  180
acgacctgtg cttcaagctc ctcgacagtg tgagcctgta agagggcacc atgtgctaac  240
cgtttagcgt ggacatgcac gct                                     263
  
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<210> 12022  
 <211> 268  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-E9

<400> 12022



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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaagagaa tgcattaaaa aagacataaa caatacttac aacaagaata aaataaaaag 180  
 gccatgaaac taagacaaaa cttaaaaaaa aaaaactctt atctaaaaaa atacataaca 240  
 tgaaaaacat aaacaataca taaataaa 268

<210> 12023  
 <211> 360  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-F1

<400> 12023

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 gctgcattca gcaaagcatg agtatgcatac aaaagcagat gtccatgaac cagagatatt 180  
 tgttgatcat gatgtatacc tgccacctgc cccaagccat catgatgctc atggccagtt 240  
 ttgctctgga ggtattgtat tggcttctcg agatggaaag attgtgtttg agagtacact 300  
 tgacgcatga ctagaaagtg ttttccgcaa gaaattgcca gagatccgga agcttctttt 360

<210> 12024  
 <211> 399  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-F10

<400> 12024

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 attcaaccaa ctgactctgt cgaactctgc tgcgtacctc caacagcgac aacagttact 180  
 taatccattg gtagtggcta acccattggg cgccgccttc ctacagcagc aacaattgct 240  
 gccatacaac cagttctctt tgatgaatcc tgtcttgctg aggcagcaac ccatcgttgg 300  
 aggtgccatc ttttagatta catatgagat gtactcgata atggtgccct cataccgacg 360

tgtgttttccct agaaataatc aatatattga ttgagattt

399

<210> 12025

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-F12

<400> 12025

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acctgtgctt caagctcccc gacggtgtga gcctggagga gggcgccatg tgcgagccgc 120  
tgagcgtggg cgtgcacgcg tgccgtcgcg cgggggtggg gcccagacg ggcgatctcg 180  
tggtggggcg ctagctccat ctacctggtg tcgattctag t 221

<210> 12026

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-F2

<400> 12026

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gctgcattca gcaaagcatg agtatgcac aaaagcagat gtccatgaac cagagatatt 180  
tgttgatcat tatgtatacc tgccacctgc cccaagccat catgattctc atggccagtt 240  
ttgctctgga ggtattgtat tgtcttttct agatggaaag attgtgtttt aaagtacact 300

<210> 12027

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-018-Q1-K1-F3

<400> 12027

gtgatttcga ccttgcagcc accttttttt gttctgttgt gtatctagta gttggaggag 60

agatgcagtt tgcacttgca ttggacacga actcaggtcc tcaccagata agatcttgtg 120  
 aggggtgatgg gattgacagg ttggaaaaat taagtattgg gggcagaaag caggagaaag 180  
 ctttgagaaa taggtgcttt ggtggtagag ttgctgcaac tacacaatgt attcttacct 240  
 cagatgcttg tcctgaaact cttcattctc aaacacagtc ctctaggaaa aattatgctg 300  
 atgcanaccg tgtatctgct atcatttttg gcggaagcac tggatctcag ctctttcctc 360  
 tgacaagcac aagagctacg cctgctgtac ctgttgagg atgttacagg cttattgata 420  
 tccctatgag taact 435

<210> 12028  
 <211> 332  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-F4

<400> 12028

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 tagggcatcc tcttgggtgc agcgggtgct gcattttggg cacccttctt ggtgtcctta 120  
 gggaaaaggg cggcaagatc ggtgttgctg gtgtctgcaa cggcggaggt ggagcatcag 180  
 ctcttgttct cgaactcgca taagaagcat tggcttgaag cactggatat gtaattaatt 240  
 cagtcgcatg catctatgca tgatgaagta ttgaaaaaaa aagaccctac gatatccatg 300  
 ccgggtgcc a ctgtctgctt aattcaacag aa 332

<210> 12029  
 <211> 417  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-F5

<400> 12029

gttgggtgaa tggaagaaat tgtctacatt gaaccgtgct gcttatttgc agcggcagct 60  
 attaccattc agccagctag ctactgccta ctctcagcaa caacaacttc ttccatttaa 120  
 ccaattggcc gactgaacc ccgctgctta tttgcagcag caaatactac taccatttag 180  
 ccagctagct gcagcaagcc gtgcttcctt cttgacacag caacagttgc tgcttttcta 240

ccagcagttt gcggctaacc ccgcaaccct cttacaacta caacaattgt tgccttttgt 300  
ccaacttgct ttgacaaacc cagcagcctc ctaccaacaa cacatcattg gtggtgccct 360  
cttttagatt gcttattagt tgtaattcaa taataaagtt tttttggatg atgtatg 417

<210> 12030  
<211> 377  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-F8

<400> 12030

cggacgcgtg ggtagcaaca tagaaagcac aatagtgtac caacaatggc aggcaaagta 60  
tttcgcctcc ttatgctcct tggctcttct gcaagtgtg ctacggcgac cattttccca 120  
caatgctcac aagctcctat agcttccctt cttccaccgt acctctcacc agcgggtgtct 180  
tccgtatgtg aaaacccaat tcttcaacct tataggatcc aacaggcaat cgcagctggc 240  
atcttacctt tatcaccctt gtctctacaa caatcatcag ccttattaca gcagttacct 300  
ttggtgcatt tattggcaca aaacatcatg gcacaacatc tacaaccaac tgtgctagca 360  
aaccttgctg cctactt 377

<210> 12031  
<211> 393  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-F9

<400> 12031

ggcttactag ttgatgatat tatggggtagc aaaatctata ctcatgaatt acgctcggga 60  
tatgctgcaa ggattgataa ttgtaggagc tatgataccg tgagcaaaga tgtaattcaa 120  
agggtggacat atcctatggg gcctgatgta gtatccagtc atgatattct aggatagtag 180  
acttcatagg cagggaatat acagggcatc aaatgtaaca ttgtcacctt cttcaciaaat 240  
ctaagcatat tctattgacg ctagtgtgac tagattagca ggtcactgca atggaagtaa 300  
ttcagttatt gatcatggct acataattgc gaaagatgaa catattaaat gctcatgtat 360  
atagcacaat gatattatg gctatgcatg caa 393

<210> 12032  
 <211> 230  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-018-Q1-K1-G1  
  
 <400> 12032  
  
 ctcgataatg gtgccctcat tccggcatgt gtttcctaga aataatcaat atattgatgg 60  
 aaatttatct caatataaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaattaaaa 120  
 aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaaaaaatc aaaaaaaaaa tacataaaaa 180  
 ataaaaaaaa aataaaaaaa ataaaaaaaa tgtttaattt ttaaataattt 230

<210> 12033  
 <211> 379  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-018-Q1-K1-G10  
  
 <400> 12033  
  
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 cttgcagaag gaactgaacc gatacatccc cactgctgct gcatttggtg gagtatgcat 120  
 cggcgcatcg actgtcctgg ctgatttcat ggggtgcaatt ggttcaggaa ctggaatact 180  
 gctggcagtg acaatcatat accaataactt cgaaaccttc gagaaggaaa gggcaacgga 240  
 gcttggtatc ttcggttttt gattagtagc tgtggaacct tgaactgata gctgaatttt 300  
 cttgtaaggc cctgtacgga agcaaccggt ttttttagaa accagttctt atatttgagc 360  
 taggagaggc caacttcat 379

<210> 12034  
 <211> 325  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-018-Q1-K1-G11  
  
 <400> 12034  
  
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gtgcctccgc tccggtcacc cgtcgctcca cgcaaccatg tgcaggagga agaccaggga 120  
 gcccaaggag gagaacgtca cccttgacc cactgtccgt gaaggagagt atgtctttgg 180  
 tgtcgctcac atctttgcat ccttcaatga caccttcatt catatcactg atttgtctgg 240  
 gaggtaaaact ctggttcgga tcaccggtgg catgaacgtg aaggctgacc gtgacgagtc 300  
 tgtaccttac gctgttatgc atgct 325

<210> 12035  
 <211> 333  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-G12

<400> 12035

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 ggctgtgtg gatttgaggg ttcgttgccc gtacttttat gagctaggat gcaagattgt 120  
 tcctttggtg agtgacaata gcattggcct gttcttgcca tatgcattca ccagtaggta 180  
 caaagagggt ctaagtaagt cccacagttc ttccatgatg acagtgccca agttcggtcc 240  
 acgccttaca aaagaagaaa ctcggtgtgt tgaatctgcc agagaatcga tgactgggtt 300  
 caagaaatgg ctagcatgtg ggatgagact gca 333

<210> 12036  
 <211> 133  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-G3

<400> 12036

acttcgaatg gctcattaaa tcaattatag tatgtttgat tgtacattct actcttataa 60  
 cctttattaa ttctagatct aatactttca acaaaccctt acttccttta ttatctcatt 120  
 tattatataa aat 133

<210> 12037  
 <211> 294  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-C9

<400> 12037

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gaagacaagg gattcaaccg ccataagctt gatgaggatg ttgagggag ggccagacgt 120  
gtccttgaga gcacctctc tggcgccacc aatgacaggc gccttgtaga ggctcagaac 180  
gttttggtcc aagggtcctg gcatgcactt aaactccagt cttaatgtac ttatgggtccg 240  
accatgggtg catgctcttc aaatggctct acacacgcta gagactcatg ataa 294

<210> 12038

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-D1

<400> 12038

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atggttcagg gcttgctccg ttgaaagag ccagctgtat tgctccgttg ccgcaaggaa 120  
gatcaccatc atgtggaatc agtactgcat tcagcaaagc acgagtatgc atcaaaagca 180  
gatgtccatg aaccagagat atttgttgac catgatgtgt acctaccacc tgccccaagc 240  
catcatgaat ctacggcca gggttgctct tgaagtattg gcttggttc ttcatattga 300  
aaggatgggt ttg 313

<210> 12039

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-D10

<400> 12039

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gacgccggcc tcaccggccg caagatcatc atcgacacgt acggcggtg gggagccac 120  
ggcgggtggc ccttctccgg caaggacccc accaaggtgg accgcagcgg cgctacgtg 180  
gccaggcagg ccgacaagag catcgtggcc agcggcctcg cccgccgctg cctcgtgcag 240

gtgtcgtacg ccatcggcgt gccggagccc ctgttcgtgt tcgtcaactc gtacggcgct 300  
ggcacgatgc atcacaagga gatactaagg atcgtgaagg agaactcgta c 351

<210> 12040  
<211> 406  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-D12

<400> 12040

gcaccatccc tagagttgtc acttttgaca agaaccctga caaccacca tgcctcggga 60  
aattcttcca aagctcagcc cccaaggcta tgctgttttt gaacttctcc accggacctt 120  
ttgattcttt caagtctgcc tactctgctg ccgcggagga attcaaggac aaggaaatca 180  
agttccttat tgggtgacatc gaagccagcc aggggtgcctt ccagtacttt ggcctgaaag 240  
aggaccagac accccttatc ctcatccagg atgggtgactc caagaagttc ttgaagggttc 300  
acgttgagggc tgaccagatc gtcgcttggt tgaaggagta ctttgatggc taattgacgc 360  
cgttcaggaa gtctgagcct attcctgagg tcaacaatga gtatatt 406

<210> 12041  
<211> 189  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-D2

<400> 12041

caaattcggt ccgtccaggc aaggaagtaa tctagcagcc aaggagagga gaagatggcg 60  
cgggctaagc aaaccggccg caagtccacc ggaagcaagg ccccgcgcaa gcaacttggc 120  
accaaagccg ccaggaaatc cgcgccgacc accggccgcg ttaaaaaacc ccacaagtac 180  
aagccccgg 189

<210> 12042  
<211> 367  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-D3



<400> 12042

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ccggcgcccg tgctctgcc aacctccgtt cacctggcaa ctctgtgca tctcccaccg 120  
ccggtccacc tgccgcccgc ggtccacctg ccaccgcccg tccatgtgcc ggccgccgtt 180  
catctgccgc cgccaccatg ccactaccct actcaaccgc cccggcctca gcctcatccc 240  
cagccacacc catgcccgtg ccaacagccg catccaagcc cgtgccagct gcaggaacc 300  
tgcgcggttg gcagcaccgc gatcctgggc cagtgcgtcg agttcctgaa gcatcagtcg 360  
agcccca 367

<210> 12043

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-D5

<400> 12043

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ttccctcctt atgctccttg ctctttctgc atgtgttgct aacgcgacaa ttttcctca 120  
atgctcacia gctcctatag cttcccttct tccccatac cttccatcaa tgatagcttc 180  
agtatgtgaa aaccagctc ttcagcccta taggctccaa caagcaatcg cagcaagcaa 240  
cataccttta tcacccttgt tgtttcaaca atcgccagcc ctatctttgg tgcagtcatt 300  
ggtacaaacc atcatggcac agcatctgca gcaactcgtg ctacctgtga tcaaccaagt 360  
agctctggca tacctttctc cctactctca gcaacaacaa tttctttcat tcaaccaact 420  
gtctaca 427

<210> 12044

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-D6

<400> 12044

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actccttatg ttcgcttgct cttatctgca tgtgattgct atactctaca atttttccct 120  
 caatgcttca caatcctcct atatctttcc cttcttctct ccataccttt ccatcaatta 180  
 tagctacatg tattacaaaa cccaactctt catccctata gtctccaaca tgcaatctta 240  
 tcatgcaaca tacctttatc ac 262

<210> 12045

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-D7

<400> 12045

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 aaagctgggt cagaaagata ttgaggtcct ttacctcatt gagccaattg atgagggttc 120  
 cattcagaat ttacagacat acaaagagaa gaagttcggt gatattagca aagaggattt 180  
 ggaattgggt gatgaagatg aggacaagga gaaagaaagc aagcaggagt atactcttct 240  
 atgcgactgg ataaagcagc agcttggcga taaagtcgcc aaggtccaga tctcgaagcg 300  
 actcagctct tctccatgtg ttcttgtttc tggtaaattt ggctggtcag ccaacatgga 360  
 aaggctcatg aatgcacaga cccttgggtga cacatcaagc cctgagttca tgataggtag 420  
 acgaatttt 429

<210> 12046

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-D8

<400> 12046

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 cacagaggca ctccctgctt ccgcgggttat ggcaggcgta atggtgagcg caggaggaag 120  
 tctgtccgtg gttgtattgt gagccaagac ctatctgtta tcaacttgggt aattgttaag 180  
 aagggtgaga acgatctgcc tggtttaact gacactgaga agccaaggat gaggggtccc 240  
 aaaagggcct ccaagatcag gaagctgttc aatcttgcaa aggatgacga cgtgcgcaag 300

tacgtgaaca cgtaccgcag gacattcact accaagaatg gcaagaaggt gagcaaggca 360  
cctaagatcc agcggcttgt gacccccttg accc 394

<210> 12047  
<211> 375  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-018-Q1-K1-D9  
  
<400> 12047

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ccaagatatc ttccatccta atgctccttg ctctgtctac atgtgttgct aactcgacca 120  
tctttcctga atactcacia actactatat ctacaattct ttcagcatat attgcatcaa 180  
tgtccacttc aatatgataa tacatagcca tacaaccata cacgctgcat caagctttct 240  
caacttgtag attacctata tcatgcctaa cgtcataaca atcatcaacc gtatggagct 300  
tgccgtcatt aacataaacg ataacgacgc acaatctgga ggaactcgtg ctagcagtga 360  
tcatccatac agctg 375

<210> 12048  
<211> 391  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-018-Q1-K1-E1  
  
<400> 12048

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aggggaaagc aaagctgatg gcggaggccc aggggaaagc aaagcaaagc gcggaggccc 120  
cgagcaagat cgaatccatg aggaagtggg tcgtcgagca caagctccga gccgtagggt 180  
gcctctggct aggtgggatc agcagttcga tcgcctacaa ctggtcgcgg cccaatatga 240  
agcctagcgt caagatcatc cacgcaaggt tgcattgctc agctctaacc ctggctgcat 300  
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tgacaaaata cacaagccaa tacctggccc a 391

<210> 12049

<211> 396  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-018-Q1-K1-E12  
  
 <400> 12049  
  
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 cgtggcattt caccaggac cacaaatttc ttgcacctgt acatgatcaa caaggacagc 180  
 cgtgagtacc tgctctggct gagaaagctg aaggatttct tcaagcagta ggtgtgaaga 240  
 cctgaagatc agctttatct ctcttttgtt cctgctaggg ccttctcggg tattccaatt 300  
 ccatgtggat tgaaatgtat taaaataaat ttgacttgt tatggattta aattaactta 360  
 ataccacca atccacatgg attattggtg aaacaa 396

<210> 12050  
 <211> 208  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-018-Q1-K1-E3  
  
 <400> 12050  
  
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 ccggatttaa tagtattatc gctggtttgg agaagaaaaa tagggtcatt agcatactgc 120  
 atcgcccttac tgtaacttac catgaatctt tacatgcatt ttctgtattt tactaggaac 180  
 atgctgtgcc tcttctaaaa attacaaa 208

<210> 12051  
 <211> 379  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-018-Q1-K1-E4  
  
 <400> 12051  
  
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ggcacaccgc ctgccaaagaa ggaagcagtc gccgcgctac caaccgtgaa catcaaggaa 180  
 gcgttgggct gttcagtcctg tcttgaggat ttcgagatgg gaggagaagc gaagcagatg 240  
 ccctgtcagc ataagttcca ctctcactgc atactcccgt ggctggagct ccacagctct 300  
 tgcccaatct gccggtttca gttgcctact gaggagacga agaacaaccc atgcgaatca 360  
 gccagcaccg caggggcca 379

<210> 12052  
 <211> 344  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-018-Q1-K1-E5  
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 ttgccgacac gagcggcgagg aactccgacg aacttgccgt ggaggttctc tgcccgtgt 180  
 tccgcccggc ggcgtttggc tcatcgctgt cacagtcagc atcaaagggtg agagcgagcg 240  
 agcgagcgag aaaccgtttc tccttcttac tcatcatatc atccgatgaa caaactggg 300  
 atggtctgat ggatggatgg atggatggat gcatgacatc atct 344

<210> 12053  
 <211> 392  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-018-Q1-K1-B11  
 <400> 12053

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 gatatgtaca tgaagggtcaa aggttaactcg ttcaagaaca agaggggtgct tatggagagc 120  
 atccacaagt ccaagggtga gaaggccagg gagaagacgc tctccgatca gttcgaggcc 180  
 aggcgcgcca agagcaaggc gagtcgcgag aggaagaatg ctaggagggga agagaggctg 240  
 gcccagggcc caagagaaat accaccacca gtctcagcca cagctcccac taccggggca 300  
 ccgaagaaag caaagaagtg aagtattgca acaaagctgc agctttctag tccagtactt 360

cgtaattttg gagcgccctg atcaattttg ct

392

<210> 12054

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-B12

<400> 12054

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gagcggcaaa atcgactccc gtgagctgac cgaggtcttc cggagccttg gatatgctgt 120  
tccaccttct gtcacgagc ttcttatagc gaattacagc aatgggtgtgc ccagcaatgg 180  
cgcgctagac ttgacaact ttgtggaatg tgggatgatt gtgaagggtt taaccgagaa 240  
attcaaggag aaggatacgc gctacaccgg ctcggctact cttacatacg atggtttctt 300  
gtcaatggtg atccccctca tcgtccctta gctgtgctgt atgtagttcg gtaacttgat 360  
agtagtcac aaccatgggt ctagt 385

<210> 12055

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-B2

<400> 12055

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atagtataaa aaataagctt gggaaccaat caatatatat aaaataacta tatatgcatg 120  
acagttaaaa atatacatc ttcctttaaa aatattagcc aatactattt gcctatggtg 180  
aactaatcaa tccttaatga ctgcccccat gtacaaaacc agatcaagat tctagctctt 240  
ccggttgaaa ttactcctta tgtgctgtaa gtttaccctt gacattatat tttccaactt 300  
aaatgcagca tgatttattc ttttaata 328

<210> 12056

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-B3

<400> 12056

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atccttggtg tgcttggaact ccatgagcag ctgcacaaat ttcgtttcag ctttcaaata 180  
tctccttttt ctgcaagttt tctgggttga aaagatgatg gtggcaataa tatggtactt 240  
gagctcacag gatgcacatt tcttgaacc tgtattccaa aactttatct acctgaaacc 300  
atagttactg ttttaagaata aaatatttta atttttatta ttttattatt tttttttttt 360  
tattttatatt attatttatt tttttttatt atattttttt atttatattt tttttt 416

<210> 12057

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-B4

<400> 12057

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tgtgaaagag agatggagtt gaaggagaaa tttgaaaaga atgttcaaga ggtagctgag 120  
aagttccaaa acacaaactt gtatttgaag aacttagagg agaacattga tgatgagaaa 180  
ttgcgtgaac tctttgctga gtatggcaat attacttcct gcaaggttat gcgggattcg 240  
aatgggtgtca gcagaggttc tggatttggt gctttcaaata ctgctgaaga tgctaaccga 300  
gctcttacgg agatgaatgg caaatgggtt ggaagcaagc ccctttatgt agctcttgcg 360  
cagcgtaaag aagacagaaa ggcaaagcta caggcacatt tttcacaat g 411

<210> 12058

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-B8

<400> 12058

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ttctagggac gcttgccagc ctggcgtgtc tgtcgtgtaa ctctgtctgc acgcgcttat 120  
 ttatatgcat ccttccttta agccgatttc cactcatatc tacctatagc gagctcatcc 180  
 gcccttattg tctgtccacc acgcactaac tcaacttcag atacttcgtc tttctgctga 240  
 gtctactcct taccttcttt ttgcttacct tctactttat attttttata ttatatgagt 300  
 ggggttatat acatattttt ctaaatttct tcttttattt tctttttttt aatctttcta 360  
 ctctttcttt cttttttcta tcttttttat tttttttctc ttattttttt tctttt 416

<210> 12059  
 <211> 384  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-C1

<400> 12059

cccacgcgtc eggtgccta ctctcagcaa cagcagtttc ttccattcaa ccaacttgct 60  
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 agccctgttg ccttcttgac acaacaacag ttgttgccgt tctacctgca cgctgcgcct 180  
 aacgctggca ccctcttaca actgcaacaa ttgctgccat tcaaccaact tgctttgaca 240  
 aaccaacaa cgttctacca acaaccatc attggcgggtg ccctctttta gattgcttat 300  
 gagttatagt tcaataatga agttttttgg atgatgtttg tggcttccca gaaataagaa 360  
 agtacatttc tagattctta tgtg 384

<210> 12060  
 <211> 325  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-C10

<400> 12060

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 tctgatacat gtttgagcga atctagatat cagctgtacg atgatgaata ccgatgctat 120  
 cgtcacagga catccctgat ccacacgact accactccct ctacaactcc ttaagcacct 180  
 acgccaaggt accttattcc aaaatattac tcaacccta tacgcaaaaa tccaagctat 240



caacctgcgc ctctgctcgc agaccggacg taaccacgtt agggcattag cgcataaacg 300  
gcacgttcca ttgactcatc cagat 325

<210> 12061  
<211> 355  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-C12

<400> 12061

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ttgtggtgtc acccggttc cccgcaagac ccacaggggt ctccgcaaag ttgcttgat 120  
cggatgcattg catccggcta ggggtctcta tactgttgcc cgtgctggtc agaattggga 180  
ccaccaccgc actgagatga acaagaaggt gtacaagatc ggcaaggctg gacaagagac 240  
ccacgatgcc tccacagagt ttgacaggac tgagaaggac atcactccta tgggtggcgt 300  
ccccattat ggtatcgtga agggtgacta cctgatgatc aagggtgat gtgtt 355

<210> 12062  
<211> 420  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-C2

<400> 12062

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ggggattacc ctaatggttg tccaaatcct cttcattggt attcccttct caaagaaatc 120  
tgcggtcaaa tggattattc actaccccggt ctgcgtgttc tgggtggagct ctagggaaga 180  
tagcacaaac attgaggtct ccttcaaagt ttataggccg cagtgatact ctaccacatg 240  
ttgatgcacg gtatccagcc atactattca aacagcagct tactgcatgt gtcgaaaaga 300  
tatttgggca gctcagagat aatctaaaaa aggaaatata acctcttctt aatgtttgca 360  
ttcaggctcc aaagtcaaca cgtgggcaat ctggaaaagc attcaagtca tctggagttg 420

<210> 12063  
<211> 382  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-C4

<400> 12063

cccacgcgtc cgaaagccgg ccgagccata accgccgccg caggccattg ccgacttgcg 60

gtgaaccttg tcttgcaacg gcttccaagt caagggccca ccgccaccgg ttgggaaggg 120

ccgccaaagg tatcccaggg aagcctgtga gcgaaggctg agagaggcca cgccgtccgg 180

agtctccagt tccgtcgcca cagcttcttg ccgcgcctgt gccgaggtaa acgagaggga 240

tcgaggaaga agtatcccc ggagccccct cccccgaacc cgaaggctcc ggaatggcgc 300

actgggttag cgacagtgat ggcagtgaca actttgaatg ggatagtgat ggcaatgggg 360

aggaaccagc gaacttcaat gc 382

<210> 12064

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-C5

<400> 12064

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gatgcaggct ctccaaggct tcaagatcac cccggagaac cccatggcta taccctatgc 120

caaaaaatga gaaccctagg ggactctgta ccggccttctg ttccgtactc tagtattgat 180

cccaaatacca cgtgtgctga ggtggattgt ggtgtaaatt agtttaagtt acaccctaata 240

ctacctcaat acatgtagat tgagctcaat actagagtat ccaaactaga cctaagatct 300

ttccgctccg cttttagaaa tcgagccacg gtaccactt tccagtcatg tgtttttgga 360

aagcactcgc ttgatttcga aattaaactc ttaacacttt taaatcaagg tttggccct 419

<210> 12065

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-C6

<400> 12065

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 acccatgccc gtgccaacag ccgcatccaa gcccgtgcc gctgcagga acctgcggcg 120  
 taggcagcac caagatcctg ggccagtgcg tcgagtttct gaggcacctc tacaatcgat 180  
 ccgaaatcca ctactgctca cctgaattcc agtctaaatt actgtaagtt acaccgttaa 240  
 ttacctcaat acatgtagat tgatctcaat actagagtat ccaaactata cctaagaggt 300  
 gggcgcttct cttttataaa tctagccacg taactcactt tttcagtcac gtgtttttgg 360  
 aaagca 366

<210> 12066  
 <211> 296  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-B10

<400> 12066

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 cagtaagtca tgtgtcggtt aagctgccc tgtgcctgcg tcgtctggtg ccctctctcc 120  
 atatggaggt tgtcaaagta tctgctgttc gtgtcatgag ttgcgttaac attggattaa 180  
 ttatggatcg cttgtcttgt ctgtgcgtac taccaggac tatcactatt catgattcaa 240  
 gcttatgtat gcattcatat cagctgctca atcttctata gtgtgacctt acttta 296

<210> 12067  
 <211> 324  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-H3

<400> 12067

cccacgcgtc cggtaaagg agaggaagat catgtacact agtgaactgg agaagaaggt 60  
 ccagactctg caaacggagg ccactacgct gtcagcacag ctgaccctgc tccagaggga 120  
 tacaactggt ttaactgccg aaaacagaga gctcaagctt cggttgacgt ccatggaaga 180  
 gcaagctaaa ctgcgggacg ctttgaatga agccctgcga gaagaagtcc agcgacttaa 240  
 gattgccgca ggacaagtct tgtacatgaa tgggaacccc ttcaatggtg gactccatca 300

tcagagggca tcctatttcg tgca

324

<210> 12068

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-H4

<400> 12068

cccacgcgtc cgccggaagg aagagatgcc agagtcacat ggccatatgt ggaggacgaa 60  
tcgtatatgt ggacatggct tttttttgtt ccactagctg cttacaccct gtggcaactt 120  
atgtatttcc tcatagttaa tgtcctgcgc cggcagaggt tgттаaggga tcctgaactc 180  
atcacatcct acagagagct ctcaaagaaa gcacagaaaag caaacaacat ctggtggagg 240  
ctgagcggac tgctgggtga ccggaaccgg caggtcatgt acatactgct ccaggcgtg 300  
ttcacagtgg caacaatggc cctgacggtc cctatatccc tgtcctaccg gatgcacgtg 360  
gtgttcctga tacttaaggt gtgcgcctcg acatggaaac ggtggcagct ttatcttgga 420  
ggtgatg 427

<210> 12069

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-H5

<400> 12069

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tgctacctcg cccaaatctg ttttccactg ctttgacggc gagaacgtgg agagtgtccc 120  
tcctcctatg aagaaggact acaagctggc taatcttctc tgctgggagg aggaagcgga 180  
tgccatggag gagaaggcgg gagtgcttga tgagtaagac gggcttctgg ggtcgatttg 240  
cttctgagtt gtttatttta tctcgtcgca atttcgtggt tgcgttttg ttattct 297

<210> 12070

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-H6

<400> 12070

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gaggagcagt tcatacctccg cgtgccgcca tccgtcgcag agcggatcga gcgcctcatg 120  
aatgaatccg ccgcctcctc ctccaacccc gacgaggcct acctggacct ctccttctca 180  
gaggatggaa gaaatggcac atttatgata ggtaatgaga gctttcctgc atctctcttg 240  
gatctacctg ctgtggtgga gtcatacaaa acatatgatg attctgtact aattaaaact 300  
gctgatgttg gtcagatgat tatggtaaga gaagaaaatg atcctgctcc agaaggagtc 360  
gagtacaagc atgggcttac tcctccaatg agggatgcac gcaggcgacg tttccgcaga 420  
gaaccagac 429

<210> 12071

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-H7

<400> 12071

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaatt aaaaaaatat ataaaaaatt 180  
atattaatta aaaaaatatt attaattaaa taaattaaaa taataaaaaa aaaatattta 240  
atataataat ata 253

<210> 12072

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-H8

<400> 12072

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ttgccgctgt gcttaacagc aaggagaccc cgcaagttgt tgccgttctg ggtggtggtg 120

gcgctgctgg cttcgtccgc ttcggcggca atcacttgcg ggcaggtggg gtcgtcgttg 180  
gcgccgcgta tcggtgcgcg acg 203

<210> 12073  
<211> 255  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-017-Q1-K1-H9

<400> 12073

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ntctcgtcgt gtgcctggct ctgtcagctg ccagcgcctc tgcaatgcag atgccctgcc 120  
cctgcgcggg gctgcagggc ttgtacggcg ctggcgccgg cctgacgacg atgatgggcg 180  
ccggcgggct gtacccttac gcggagtgcc tgaagcacgc tcagttcatc cagacagcgg 240  
cggctactta ctact 255

<210> 12074  
<211> 307  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-A1

<400> 12074

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gatgcctgct ggccacggcc tgcgctcgcg gacgcgcgac ctcttcgcgc gcccttccg 120  
caagaagggc tacatccgc tcaccaccta cctccgcacc tacaagatcg gcgattacgt 180  
cgatgtcaag gtgaacggcg ccgtccacaa ggggatgccg cacaagttct accacggccg 240  
caccggtcgc gtctggaacg tcaccaaacg cgccatcggc gtttaggtca acaagcatgt 300  
caatggg 307

<210> 12075  
<211> 396  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-A11

<400> 12075

caaaaaaaaaa aataaaaaaaaa actaaaatta aaaaacaaaaa acaaaaaaaaa atagaaaagc 60

tacattttca aaattaaaac aatctccaac tgcttatacc aataccattt tcccacaatg 120

ctcaciaaact cctataactt ccctttcttc ccctacctc tcaccatctg tatcttctat 180

atgttaaaac ccaattctta aaccctatac gatccaacat gcaatctcat ctttcatctt 240

acctttatca cccttttttc ttcaacaatc atcaacctta ttacaacatt tacctttggt 300

tcattttattg tcacaaaaca tcatatcaca acaactacaa catactgttc tatcaaacct 360

ttctttataa tcttaacatc aatattttct ttctat 396

<210> 12076

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-A12

<400> 12076

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acttccttct tgacacagca tcagctgctg actttctacc agcagtttgc ggctaaccct 120

gcaaccctat tacaactaca acaatcgtag ccctttgtcc aacttgcttt gacagaccca 180

gcggcctcct accaacaaca catcattggt ggtgccctct tttagatagc ttattagttg 240

taattcaata ataaagtttt ttggatgatg tatgtggcca accagaaata ggaagttaca 300

tttccaa 307

<210> 12077

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-A2

<400> 12077

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gacggttggt tgaactacat tgaggaaaat gatgaggtct tgattgctgg atttggtcgt 120

aaggagcacg ctgtgggaga tattcctggt gtccggttca aggtcgtcaa gggttccggt 180

gtgtctctgc ttgccctttt caaggagaag aaagagaagc caaggtctta gattgctctt 240  
gctaccaaaa tcagcaagcg tggagttgaa acgggagggc gttagatgat taataagaat 300  
ggttgcttgc tatgtttgca gtgcattcgt gcaattgtta acctaagatt ttgttgggtga 360  
aaacgatttc ttttcagact tgcttctgtt gagtgtctatc attccatatac aatgtacttc 420  
ctc 423

<210> 12078  
<211> 205  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-A3

<400> 12078  
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gatcaaatac gaattgatct ggaaagcact accaatcact tgcaacccaaa ctacgatgaa 120  
aattctatgc tgcaatctgg tttctcttgg gctcctgaac agaacagaag agccccact 180  
acagatttct ggaaaaatgt tgaaa 205

<210> 12079  
<211> 369  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-A5

<400> 12079  
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tggctaccaa gttccaagg atgacttggc tgtctacact tcgttttcgt ctgctccctc 180  
gtccaagtat atcaacgtag caaggtgggt taatcacatt gatgcgctcg tgaggctgag 240  
cggaattact gcaaagggcc aaggtgtgaa ggttgaatcg tcagcagttc cgtcagcccc 300  
aactccagat gttgctgaat cacatgcccc agttgctgaa gaggacgacc actatgattt 360  
tgacctttt 369



<210> 12080  
 <211> 230  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-018-Q1-K1-A6  
  
 <400> 12080  
  
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 cgtacatatc ccgtcaccaa ccgatcctac accctccagc atggccgttg cgactgccaa 120  
 cgccgcgaca gccctggctc ttgcgctcga tctctcgctc gcggacacca actctgaggg 180  
 cgacgcgctc tccacgcttc tccacatcct aaggtacccc atctacattc 230

<210> 12081  
 <211> 432  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-018-Q1-K1-A8  
  
 <400> 12081  
  
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 tacaagcggc agctgcggct gccagccacc gccgccggtt catctaccgc cgccggtgca 180  
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 gccgccggtc cacctgccac cgccggtcca tgtgccgccg ccggttcata tgccgccgcc 300  
 accatgccac taccctactc aaccgccccg gcttcagcct catccccagc cacacccatg 360  
 cccgtgccaa cagccgcata caagcccgtg ccagctgcaa ggaacctgcc gcgttggcag 420  
 caccocgata ct 432

<210> 12082  
 <211> 249  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-018-Q1-K1-B1  
  
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gaggggtgct cggcggccat gggagaatgg tgcttcaaga aacgcgcagc tctgggtgatt 120  
attgtggcca ttattagctc gctgcagctg ctctgataa ctgctcaaga agctggagga 180  
gaccaacgagg tgtggtcgtc gtcacccctcg ccggccgggtg gtcgtgggtgg cggcgcctgc 240  
gtcgtcccg 249

<210> 12083  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-F9

<400> 12083

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cagcaacaac aatttcttcc attcaaccaa ctgtctacat tgaaccgtgc tgcttatttg 180  
cagcaacaac tattaccatt cagccagcta gctactgcct actctcagca acaacaactt 240  
cttccattta accaattggc cgcactgaac cccgctgctt atttgagca gcaaatacta 300  
ctaccattta tccagctagc tgcagcaagc cgtgctttct tcttgacaca gcaacagttg 360  
ctgcctttct accagcagtt tgcggctaac cccgcaacct tcttacatct acaacaattg 420  
ttgccctttg tccaac 436

<210> 12084  
<211> 400  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-G1

<400> 12084

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tgccaagata ttatccctcc ttgcgcttct tgcgcttttt gcgagcgcaa caaatgcgtc 120  
cattattcca caatgctcac ttgctcctag ttccattatt ccacagttcc tcccaccagt 180  
tacttcaatg gccttcgaac acccagctgt gcaagcctat aggctacaac aagcgattgc 240  
tgcgagcgtc ttacaacaac caattgccca attgcaacaa caatccttgg cacatctaac 300

aatacaaacc atcgcaacgc aacagctaca acagtttcta ccatcactga tccacctatc 360  
catggtgaac tctgtattct tattgcaaca actgtttttt 400

<210> 12085  
<211> 396  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-G10

<400> 12085

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aggctactgc ttatgtctca gaagagcttg gagaaacgct ttggccagtc tccaattttt 120  
attgcatcca cttttatgac tcaaggtggc atacccctt caacaaacc aggttccttg 180  
ctaaaggaag ctatacatgt cattagttgt ggatatgagg ataaaacaga ttggggtaaa 240  
gagatcgtat ggatatatgg ctctgttact gaagatattt taactggttt caagatgcat 300  
gcaggagggtt ggatatccat ctactgcatg ccacttcggc cttgcttcaa gggttctgct 360  
ccaatttacc tttctgatcg tcttaaccaa gtgtta 396

<210> 12086  
<211> 429  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-G11

<400> 12086

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atTTTTgagg atgctactcc tgaactggtt agagatttct tctgggatgg tgattttcgt 180  
ctaaagtggg atcccatgct tgcattttgc aaatctttgg atgagttccc tcagaatgga 240  
gcaacaattg tccactggat aaaaaagttc cgtttctttt gcagtgaccg tgaatacatc 300  
tttggaggac gcatatggta atctgggaag acttactatt gtgttactaa ggggtgtcca 360  
tatccatcat tgcccatgaa agaaaaaccg aggcgtgtgg agctgtactt atcaagggtg 420  
cgtattaga 429

<210> 12087  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-G12

<400> 12087

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aagggtgctcc gcgacaacat ccagggcata accaagccgg cgatccggag gctggctagg 180  
aggggtggcg tgaagcgcat ctcggggctc atctacgagg agaccgcgg cggtgtcaag 240  
atctttctcg agaacgtcat ccgcgacgcc gtcacctaca ccgagcacgc gcgccgcaag 300  
accgtgaccg ccatggacgt cgtctacgcg ctcaagcgcc agggccgcac cctctacagc 360  
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ggtgatgctt tttgaggtag tatt 444

<210> 12088  
<211> 411  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-G2

<400> 12088

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gtgtgttctg cagagcaaat ggtaagttag attgtattac aggaagttgt actacaacgg 180  
tgaatacaat cactgagatg agaacttgaa gcaacagctg aaacgacgaa tcaaaagatg 240  
aatgtcttca tattccaagt gtcattgagtt gcggacactt tgtatagaat tatgtcttct 300  
attgtatttt atccatacta ttaagaggag ttgtggatga gttattttga ccaagataat 360  
gctagtgtat tggtgtatca tattgcacac tctattacta gtttaactct a 411

<210> 12089  
<211> 405

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-017-Q1-K1-G7  
  
 <400> 12089  
  
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 ccgtcctccg tccgcgtgt tctcatgtcc gccgggctgt cgacggagct ccgccacaag 180  
 tacaacgtgc gtcctatccc gatccgcaag gacgactagg tgcaggtcgt gcgcggcacc 240  
 tacatggggc gtgaggggaa ggtggtgcag gtgtatcttc gtcgctttgt tatacatgac 300  
 gagcgggtca cttttgttat tttttatctt ttcattttta tcttttatctt tttctacttc 360  
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 <211> 420  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-017-Q1-K1-G9  
  
 <400> 12090  
  
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 tcattattcc acaatgctca cttgtctcaa gttccattat tacacagttc ctcccaccag 180  
 ttacttcaat gggcttcgaa caccagctg tgcaagccta taggctacaa caagcaattg 240  
 cggcgagcgt cttacaacaa ccaatttccc agttgcaaca acaattcttg tcacatctaa 300  
 cagtacagac catcgtaact catcagcatc aacaattcct accagcactg agccacctag 360  
 ccatggtgaa ccctgtcgcc tacttgcatc agcagttgct tgcacaaac ccatttgcct 420

<210> 12091  
 <211> 374  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-017-Q1-K1-H1  
  
 <400> 12091

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catcatcacc acccctaacc ccgtgttcag ccacctggct gggataactt ccgtctggaa 180  
cgccatattt cctgatgtgc tgcaggcatt cttcaacacc actcctgaga tggataaact 240  
gttccgcttc aagatgctcg actcgtagat ctttttcgcg cttttcagct tcaactgaaa 300  
caccagctct tcaatacttt ttatatgaga tegtcttga ttgttgtaa tgcattgat 360  
attaataatt aaat 374

<210> 12092  
<211> 405  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-017-Q1-K1-H10  
<400> 12092

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gttccccgtc ctcaacctcg tacagatgag cgcggtgcgg gtagacctgt accaggacgc 180  
catcatgtcg ccgttctgga acttcaacgc ccacagcgcc atgtacggca tcaggggcag 240  
tgcaagggtc caggtcgcca gcgacaacgg gaccacggtg ttcgacgacg tgctccgtgc 300  
ggggcagctg ctcatcgtac cccagggtta cctcgtcgcc accaaggcgc atggagaagg 360  
cttncagtac atcgcttcg agacgaaccc tgacaccatg gtcag 405

<210> 12093  
<211> 442  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-017-Q1-K1-H11  
<400> 12093

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gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg gctcggccgt 120

tttaaaggtc ccaaccttcc ttcccttcc ttccaacttc ataccttttt tatagtgcc 180  
 cctaatttca tttcactgcc cttcttttaa caccttctta cctggaaaac cctgccttt 240  
 cccaatttta ttccctttgc atcaacttccc cttttcccct gttgccttat taccaaatag 300  
 ccccgtagct atcgctcttc caatcatttt cccaccctta ttgtctattg taccctccct 360  
 ttttctgcc cttatatccc tctttttttg gttttaactc tcattttacc ctttttattt 420  
 tcttttcttt atttcttttt tt 442

<210> 12094  
 <211> 244  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-F8

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 ataaaatcat catattatat atgactaact atttatattc aaatcatatt gaaaattaga 180  
 ttgtatacag aaagtattac aacaactctt aaaacaatct cttatatgat aactttaatc 240  
 tatt 244

<210> 12095  
 <211> 415  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-E2

<400> 12095  
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 ctgaggtata ctgtggtggg caagcatcaa caggaagatg ggtacatggt gatgttgtga 180  
 ataatctcat tgatgctgaa cagaatgtag aagcttcttc tgccgtttgc aagaagcctt 240  
 taagatatgt tattgctttt gctggaaatg gagccaagga tgtaaccaga aggtattgct 300  
 tgcagtggca cagaattgca caaggcagag tgaattcaga gtggtgggat aatgttttgg 360

cgccactaat acagatggaa ctggcagcaa caaacaacta tgaagacatg gaact 415

<210> 12096

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-E3

<400> 12096

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attgacagca tgggtcaatgg cacctcaatg gatgatgatg atatcgagaa gaccgatgca 120

tctcccaaga aaagcaagaa aaagaagacc aaaaccaagg ctgatggtga tgcaatggac 180

gtggataaac cctccaacgt tgctggtgga gaagctgagc ctggaactga gaagaagaag 240

aagaaaaaga agcataagct ggaggaggag gcacaggagg agaacggtgc agcagatact 300

accctaaga aaaagaaaaa gaagagccgt gaagcttccg aagaagctga acctaagacc 360

gtcaccgatg gtaagaagaa gaaaaag 387

<210> 12097

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-E4

<400> 12097

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agagcttttc ttctacagag acccagagga agcgaagcag ctggaggaag aagaggctct 120

ggttgcacct gactatggcg cggttgcaga atacactgca ccaggcgctg acaactgggg 180

cggatgaatgg ggtgctggcg aagctgcagc tccagctgct agcattccag ctgctggcgc 240

agactgggct gctgctccag ctctctctgc tgacggtgtc tgggacgcag ctgttgctcc 300

agctgcagca gcagcccccg gatgggaaca aggcgcggcc cccgttgcg cgctgacccc 360

tacctgggag taattaataa agagttaatg atcatggtgg a 401

<210> 12098

<211> 376

<212> DNA



<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-E5

<400> 12098

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cattggaagg atgaattcgt ttgtacactg cagcattact ggtagggac aaaactactc  180
tgggcagatg ttaggatctc atcaagattg ctggtgaaac ttgctggggg gaagagcctt  240
tcaagaagag agaggcaaca gctgacacgc acaacatcat atatcttcag gcttgatccg  300
ggggctgtgt tcatcattgt tccattcatg gaattcttac tgccagtctt ttttaagtta  360
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<210> 12099

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-E6

<400> 12099

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tcgtcggcgg tgatggctgg gggtttacgc ggcgtgagca accctctgga ggagtggagc  120
gggcgcgtga aggcgattga ggccgggttc cgcgcgtgga tggcgaagca acccatccaa  180
atcgaggccg cggtgaccac ggccgtgggg gcggtgcagg gcggggctct ggggtgggctc  240
atgggctcgc tcacagctga cggcgggtcg ccgttcccca tccgcagcc gtcgtccaac  300
gggacccata ggccatggcg tcgttcaagc aggccaggc tttagctggt ggacctttgg  360
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<210> 12100

<211> 198

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-E8

<400> 12100

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 ttttttatct atttgattgg atggacataa gcgctcacct tggaagaaac taccagatt 180  
 ttaccgaatg attttgct 198

<210> 12101  
 <211> 353  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-017-Q1-K1-F1  
 <400> 12101

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 gtcaccagcc ttgcagcagt agaggtacta cgtgcacgcg atggaagcca agatgtgatt 180  
 aactctgtag atgttacatg tgggtctcagt ttgggagagt ataccgctct tgcatttgcc 240  
 ggtgctttta gctttgagga tggactgaag cttgtcaagc taagaggaga agctatgcag 300  
 gatgcttcag atgctgccaa tagtgcgatg gttagtgtga ttggtctgga ttc 353

<210> 12102  
 <211> 384  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-017-Q1-K1-F10  
 <400> 12102

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 ccgccgggaa gaagcccaag gcggagaagc ggggtccccgc gggcaagtcc gccggcaagg 180  
 agggcggcga gggcaagcgt ggcaagaaga agggcaagaa gagcgtggag acgtacaaga 240  
 tctacatctt caaggtgctg aagcaggtgc acccggacat cggcatctcc tccaaggcca 300  
 tgtgcatcat gaactccttc atcaacgaca tcttcgagaa gctggccggc gaggcctgca 360  
 agctcgcgcg ctacaacaag aagc 384

<210> 12103  
<211> 372  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-F11

<400> 12103

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catgagctct gcctggcaag caggcccgcac gacgacgacg atgaccgcta ctgactagtt 180  
tcgttgcaca tggttcatct gttttatatg ctatatgcta ttgttcgtaa ctacttccag 240  
tatgttggtt ggtaatcggc atgagaaaaa atagtggaaa attaatataa aaagtttagac 300  
tagaagattt tagtgtattt tgttttcacg ggagaagttt tcttttatcg gtctagatag 360  
attctatggt ct 372

<210> 12104  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-F12

<400> 12104

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tgatatccaa ccttgcattt gttttccgca acatcttctc gaagaggggc atgaagggga 180  
agtccgtcag tggcatgaat tactacgctt gcctgtcaat tatgtccctg gtcatactga 240  
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ttgcagaagt tggaccaat gttgtctggt ggattgctgc acagagcgtg ttctaccact 360  
tatataacca ggtgtcctac atgtctctcg atcagatttc tccattgaca ttcagcattg 420  
gcaatacaat ga 432

<210> 12105  
<211> 410  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-F3

<400> 12105

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ggaggactat agaggactgc caagtgttc tggatttctg gtgcaagact gaggtacat 120

gaggtcatg ctggttcttc tgagtctgtg gtggagatcc agggcacact ggaccaagca 180

aaagctgctc agagcctcct ggagggcttt atcagcgga acagcaggca gcagcaatcc 240

cattcttctc gcatgccact ttaccaaga tggggatagc ttctggttgt ggcaggggaa 300

aaccgagtca gcaagggttg ctggagttat cttagactgc agattagatt catcgatgat 360

gttaatggta gctgtttaa ttgaccgtgc aagcctgata acttatatta 410

<210> 12106

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-F5

<400> 12106

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ggtgggtacg gtggtggccg tggaggcggc ggctacggcg gtggcggcg ccgtgatggc 180

ggtggcggct acggcgggtg cggcggctac ggtggcggcg gcggctacgg tgggtgtggc 240

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<212> DNA

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 tgcaaagaag ggtgggtgaga ggcagttcaa tggactcggt gatgtttacc gcaagaccct 180  
 tgccagtgat ggtattcgtg gcctctaccg tggattcaat atctcttggtg tggggatcat 240  
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 tggccttgcc ttctacccca ttgacactgt tct 393

<210> 12108  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-F7

<400> 12108

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 tggtcgcacc ttggctgact acaacatcca gaaggagagc accctccacc tgggtgctccg 180  
 cctcaggggt ggtatgcaga tttttgtgaa gacattgact ggcaagacca tcaccttgga 240  
 ggtggagtcg tctgacacaa tcgataatgt caaagccaag atccaggaca aggaaggcat 300  
 tccaccggac cagcagcgcc tgatctttgc tggcaagcag ctggaggatg gccgtaccct 360  
 cgccgactac aacatccaaa aggagagcac cctccacctg gtgcttcgct tgcgaggtgg 420  
 tatgca 426

<210> 12109  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-E11

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cgacaatttt ccctcaatgc tcacaagctc ctatagcttc ccttcttccc ccataccttc 180  
catcaatgat agcttcagta tgtgaaaacc cagctcttca gccctatagg ctccaacaag 240  
caatcgcagc aagcaacata cctttatcac ccttgttggt tcaacaatcg ccagccctat 300  
ctttggtgca gtcattggta caaaccatca gggcacagca gctgcagcaa ctcgtgctac 360  
ctgtgatcaa ccaagtagct ctggcaaacc tttctcccta ctctcagcaa caacaatttc 420  
ttccattcaa ccaact 436

<210> 12110

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-C8

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atctcaacaa tcaaacatga catcatagaa accaaatatg agattgctca agcttcaaca 180  
gcaacccttc cagccacctg gtccagatca cgccttcctt gggagggtgat gcgcgcgtcca 240  
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atggcaccac tgctcttgca gaagtggagt gggcgtgagc cattcctctg gcggccacca 360  
taaattcttct ggaagccacc aacaccaatg ccttgtctca agtagatctt ccttgctaca 420  
gatgcagccc 430

<210> 12111

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-C9

<400> 12111

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caagaagctt aagctcaagt gtctcatgaa acacatcggc ctggctccagc aagagccggc 180

gctgttcgcg acgacgatct acgacaacat cctgtatggc aaggacaggg ccacggaggg 240  
cgaggtcggt gaggcagcca agctggctaa cgctcactcg ttcatgagct cgtttccggg 300  
ggggtacatg accatggtat gtggagcgcg gcttgcactc gtcgg 345

<210> 12112  
<211> 414  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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cggaactgct gccttgcccc ccgcgccttt ctcttccatg tttgctgcta caatcttgtt 180  
gttgggcatt gcagtgcacg gtgcacactt gtgtagcccg cctcgagaat tcctgcctct 240  
gcatctggtc agttctaaaa tgatttgcac gttggctatg ttgtgtaagc tctatttatg 300  
gtggtctcgc tgagacgggt atttggttc gcagttatct agctatgtga tgtactgttg 360  
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<210> 12113  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-D10

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caacagctgc ttccattcaa ccaactgact gtgtcgaact ctgctgcgta cctacaacag 180  
cgacaacagt tacttaatcc actagcagtg cctaaccat tggtcactgc cttcctacag 240  
cagcaacaat tgctaccata cagccagttc tctttgatga accctgcctt gtcgtggcaa 300  
caaccatcg ttggagggtgc catcttttag attacatatg agatgtaatc gataatgggtg 360  
cccttatacc ggcattgtgt tcctagaaat aatcaatata ttgattgaca tttatcctcg 420

ataaaaaatt ta

432

<210> 12114

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-D12

<400> 12114

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agagagaatc tgagactgag actggtagca gctgaagcat cgggtgctagc tagcttgggc 120

agcaacatca cgatgtcgtc caactgcggc gaggatgaga aggagctggg gtgcgtgacc 180

ggcgccggcg gcttcatcgg ctcggtgggtg gtgaatgagc tgctccagcg gggttaccgc 240

gtcaggggaa cggcgaggga ccctgctgac agcaagaacg cgcacctgct ggctctggag 300

ggagccaagg agcgcctcac cctgtgccgc gctacgttc tcgaccgcgc ctccctgctc 360

gccgacttcg ccggatgtca cggcgtatgc cacgtcgtct ctccggtgtc caacgaccc 419

<210> 12115

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-D2

<400> 12115

agcgccggcc agccggtctc caatcctgca atccctccaa tatccaatag gggatgaggt 60

gcagcgagca agtccaataa cctacagtgc ttggaatttg tggaaggaga gatgctggcg 120

aatctttgat aacagacttt gctttgtact ggatgagaag gcagagcacc tgccaggctc 180

caatcctgcg tcagcgttcc tgctccctg gctccctgcc gtctactcgt ctccaagaat 240

catgct 246

<210> 12116

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-D3



<400> 12116

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caggttcttc cattcaacca actagctgca ttgaactctg ctgcttattt gcaacaacaa 120

ctaccattca gccagctagc tgctgctac cccaacaat ttcttccatt caaccaactg 180

gcatcattga actctcctgc ttatttacag cagcaacaac tactaccatt cagccagcta 240

gctgggtgtga gccctgctgc cttcttgaca caacaacagt tattgccgtt ctacctgcac 300

gctgcgccta acgctggcac cctcttaca ctgcaacaat tgctgccatt caaccaactt 360

gctttgacaa acccagcaac gttctacaa caacccatca ttgggtgggtgc cctcttttag 420

atttct 426

<210> 12117

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-D5

<400> 12117

cccacgcgtc cgggaaacct tagccgcat atctcacgat ccaactcgagc accgagcgga 60

gggaaggtga ggagcgatgg cgcgcggcgt ggtgtcggcg aagggcggcg cggtcgcggg 120

caagaagaag gggtcggttt ctttcacgat cgactgcacc aagccagtgg aggacaagat 180

catggaggtc gcctcgctcg agaagttcct gcaggagcgc atcaaggctc cgggcggcaa 240

ggctggcaac ctgcggcact ccgtcacat ctttcgcgag aagaccaagg tcaccgtcac 300

gggggacgga cccttctcca agaggtacct gaagtacttg tccaataagt act 353

<210> 12118

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-D6

<400> 12118

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ccaatctgtc atatcgttta agcccacaat ggtaacaata ctttcccccg aggttgcaga 120

aaaagaatca gaagctggtg ggaagatggg tgacctagat tcttatgaga ttgaaggcgg 180  
 cgagacaaaa tcagagattt tgcagaatct agctgagttc cagttttctt gtgtcctgta 240  
 caatggtgcc ctagagaatg catgcagtga gcttggagcc cgtatgtctg ccatggacag 300  
 ctctagcaga aatgctggcg atatgcttga tcgtctcact ctcacttaca acaggacacg 360  
 ccaagcatcc atcaccacag agcttactga gattatatct ggtgcatcgg cccttgaggg 420  
 gta 423

<210> 12119

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-D7

<400> 12119

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 atgtaccgac cgaggtagga gggaaatggt gtggcctttt gtaagcaggt cattggatgt 120  
 ttatttttaga ttattttttg gcgttttacc cacactaccc ttgaaactta ttgagttctt 180  
 atccagcaaa taagattatg taatcctgga ttatataggt tcaaagcttg ggacagcaat 240  
 ttgttttagag tcctgtataa tctagctgtc acgtctcatg actcacgttg agaaagatga 300  
 ggggatttgc atcgtttatg gtttagtaag tggcttatta ttatattttt atttagtttg 360  
 gccgtttttt agtatccaat ctttatttac gcttgcattc tactttatat ctattttta 419

<210> 12120

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-D8

<400> 12120

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 gctgagactc ccgcgccgtt ggtggatgcg gccccagagg cgcccgccga cgccccggcg 120  
 gcgcctgctg ccgacgcgaa gccggccaag gccagaagg ccaccgcgcc gaagaagcgc 180  
 gccagcccga cccacccgcc gtacgccgag atggtctcgg aggcgatcac gtcgctcaag 240

gagaggacgg ggtccagcag ctatgcgatt gccagttcg tggaggacaa gcacaaggac 300  
 gggctcccg ccaacttccg caagcttctg aacgttcagc tcaagaagct cgtcgcctgc 360  
 ggcaagctga ccaaggtgaa gaactcgtac aagctggcgt tcgccgtcac caagccgaat 420  
 tccaagc 427

<210> 12121  
 <211> 290  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-D9

<400> 12121

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 gacctgggtg agcgggggaa acacactagc gaagcgcata cagcacctaa caacaatggc 120  
 ttacaagaca ttatccctct tgccttttgc cttttggagt gcaacaaatg cgttattatt 180  
 ccaaagctca ctgctcagtg ccattattcc acagtctcct ccagttctta atgggcttcg 240  
 aacaccact gtgcaagcct ataggctaca acagcgttg ctgcagcgtt 290

<210> 12122  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-E1

<400> 12122

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 ccaacaagca atcgcagcaa gcaacatacc tttatcacc ttgtttcaac aatcgccagc 120  
 cctatctttg gtgcagtcac tggtacaaac catcagggca cagcagctgc agcaactcgt 180  
 gctacctgtg atcaaccaag tagctctggc aaacctttct cctactctc agcaacaaca 240  
 atttcttcca ttcaaccaac tgtctacatt gaaccgtgct gcttatttgc agcaacaact 300  
 attaccattc agccagctag ctactgccta ctctcagcaa caacaacttc ttccatttaa 360  
 ccaattggcc gcaactgaacc ccgctgctta ttgcagcag caaatactac taccatttag 420  
 ccagctagc 429

<210> 12123  
 <211> 366  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-E10

<400> 12123

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caccgctaaa ggtgctgaat tcgtggtatt cagaccctcc gagattgctg ccagggttgc 60
acttgctgct atcggcgaat gcaggagtgc tgtaattgag agagctgcta gtagctgcaa 120
atatttggac aaggagaggg ttttaagatg ccatgaaatg attcaagaga agattactgc 180
gggaagcatt gtcctaaagt ctgctggatc atcaatctgc tctgtgccac aaagcccaat 240
atgtgtactg gacgctgcat cctgtctgag tcaacaaagc gatgactcta ctgtcgggtg 300
tgctgcagta tgttaccata gttcttcac aagcaatagg agaaagatca ctatacgtct 360
actcta 366
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<210> 12124  
 <211> 405  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-C7

<400> 12124

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gtcgaactct tgtctgatat gcttggtgct cggtattttc ggagtgggtcc tgctcatagt 120
gataatagta cttgcagcct aaaagcttgg aaggcagctg ggggttcgaa atctgatcga 180
gagcttattg cgacaaattc cttcataagt tatttttgcg gtgctgctag gaatgattcc 240
tggtacccat gcggtgattg gcgctctgct tgtggtgtgg cggtatatgt ggtgatgatg 300
gggtctgatg cataaaagta ctctttcttg caagtgtatt gcctcatgca cggttttgtt 360
tatatattgt gatgtattga tgcttgatgt ataacaaggt tggat 405
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<210> 12125  
 <211> 199  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-B11

<400> 12125

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aacaacacat cattggtggt gccctotttt agattgctta ttagttgtaa ttcaataata 120  
aagttttttg gatgatgtat gttgccaacc agaaatatga agttacattt ccagatgtta 180  
atgtgaaaaa aaaaattga 199

<210> 12126

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-B12

<400> 12126

gatcgtcgaa cagaacagca tgaagatggt catcgttctc gtcgtgtgcc tggcgctggc 60  
agctgccagc gcctctgcaa tgcagatgcc ctgcccttgc gcggggctgc agggcttgta 120  
cggcgctggc gccggcctga cgacgatgat gggcgccggc gggctgtacc cctacgcgga 180  
gtacctgagg cagccgcagt gcagcccgtt ggcggcggcg ccctactacg ccgggtgtgg 240  
gcagccgagc gccatgttcc agccgtctcg gcaacagtgc tgccagcagc agatgaggat 300  
gatggacgtg cagttcgtcg cgcacagct gcagatgatg atgcaacttg agcgtg 356

<210> 12127

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-B2

<400> 12127

cccacgcgtc cgccttggtg atctgaatga ctggtaccgc cacacatcta aaggtgcatg 60  
gccgttctca actgctgata atggttggcc tatactctgat tgcactgctg aaggactaaa 120  
ggcttcatta ttgttatcaa ggatctctcc caaaattgtt ggtgaaccga tggaagctaa 180  
tagattttat gatgctgtca gttgtctgat gtcttatatg aatgataatg gcggtttcgc 240  
gacatatgaa ctcaacagat cttatccctg gttggagctg atcaatcccg ctgagacctt 300

tggggatatt gtgattgatt acccgtatgt tgaatgtaca tcagcagcaa ttcaggccct 360  
gacatcatto aaaaaactat accctgggca ccgcaggaaa gaggtggata actgtatcag 420  
caaagc 426

<210> 12128  
<211> 353  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-017-Q1-K1-B5  
  
<400> 12128

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acgccaatgc taagttaa tttggagata aaggttat tggcatttgaa catataacat 120  
gggctccata ccagaccaag ctgatagaca cggggcttct gaccttgtt gagatcgact 180  
gggtgaacac gtaccactca gactgccgga agatcttgga gcctcatctg aacgagcagg 240  
agaagcaatg gctgatgaaa gctactgagc ccgtagctgc aagaggctga gccttttcgt 300  
gaacgttgca tgccaccgag cgccatgctc atcttctgcg tggcatacat ata 353

<210> 12129  
<211> 423  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-017-Q1-K1-B6  
  
<400> 12129

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tgcataacga aacacatcgt cgtcggatcg gagatgatga gttccgtcgt cgtggatgct 120  
gctgctacca gcagcagcga gaagaagacg tcgtggccgg aggtggtggg catgtccatc 180  
aaggaggcga cggagactat tctcaaggac atgcccaacg cgtacatcca ggtgctgcct 240  
gttgggtcgc ccgtgacgct ggaccttcgc cccgaccgcg tccgtatctt cgttgacacc 300  
gtcgccatga ctccgacagt tgggtgatac ataccaaatg caataaaca accctacttt 360  
ttattttatg tttccagtta ataataaacc aggccttagc ttcttggttg tccttccttg 420  
gtt 423

<210> 12130  
 <211> 460  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-B7

<400> 12130

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ttccctgggc taccactct tcctccaact catatgaaac aaccatttct actcaataaa   60
tacatcacta atcaattcgc ctgctcaact atcaatttcc caatcctcta cacttaattt  120
tattccttcc accattaatc tctactacct ccttcaattc ttctgtccc atcctattta  180
tgtctttttc ctcttctttc tttcttttct tttttacctt tttttttctt tttactttcc  240
tttatatatt attttttttt cctctttcat tcttttcttt ttttttctct tttttttttt  300
tttttttttt ttttttttct tccttttctt gtttcttttt atatttctat tttttttttt  360
attttttttt tttttttttt tttattttat tatttttttt tttttttttt ttattttttt  420
tttttttttt tttttatttt ttttttatat tttttttatt                          460

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<210> 12131  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-B8

<400> 12131

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agatctcatt gcctcctaag tcctatcgcc caccctgatc accgcgcggg tatcggagca   60
tggcgtctgc ggcggcggtg gacgccggcg acgcgccgga gccacgggtg cggaacctcc  120
tagaccagga gtccctcaag tgggtcttcg tcggcggcaa gggcggcgta ggcaagacca  180
cctgcagctc catcctttcc gtctcctcgc cgggggtccg ccagtcctgt ctagtcatct  240
ccaccgacct cgcgcacaac ctacgcgatg ccttcagca gcggttcacc aagtttccca  300
ccctcgtccg cggattcacc aacctctacg ccatggaaat tgacctgaag gtagaaaatg  360
atgatttagc caatgaagga atggagggat tcctttcaga actgacaaat gcgattccag  420
gagtagatg                                     429

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<210> 12132  
 <211> 415  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-B9

<400> 12132

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ggatcctgc tgaagcctag catggtcacc cctggagctg agcacaagga gaaggctggt   60
ccagaagcca ttgcaaagta cacgctaaca atgctcagaa ggagagtacc tcccgtgttt  120
cctggaatca tgttcctttc tgggtggacag tccgaggtgg aggcaactct gaacctgaat  180
gcaatgaacc agtctctgaa cccatggcat gtgtcgttct cctatgcccg ggctctgcag  240
aactcgggtgc tgaagacatg gcaagggcgc cctgagaacg tggaggcagc gcagaaggcc  300
ctgctgggtgc gcgcaaaggc caactcgctg gccagctcg gtcgctacac tggtgagggc  360
gagagcgatg atgccaagaa aggcattgtc cagaagggtc acacctacta atgtg      415
  
```

<210> 12133  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-C1

<400> 12133

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cccacgcgtc cgccgacgcg tgggcaacta gcaacataga aagcacaata gtgtaccagc   60
aatggcagcc aaaatatattt gtttccttat gtccttgggt ctttctgcaa gtgttgctac  120
cgcaaccatt ttcccacaat gtcacaagc tcctatagct tcccttcttc ccccatacct  180
ctcaccagcg gtgtcttcag tgtgtgaaaa cccaattggt caaccctaca ggatccaaca  240
ggcaatcgca acaggcatct taccattatc acccttggtc ctccaacaac cgtcagccct  300
attacaagag ttaccttttg tccatttggt ggcacaaaac atcagggcac aacaactaca  360
acaacttggt ctagcaaacc ttgctgcata ctctcagcaa catcagtttc ttccattcaa  420
ccaactggc                                     429
  
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<210> 12134  
 <211> 435  
 <212> DNA  
 <213> Zea mays



<223> unsure at all n locations  
<223> Clone ID: LIB3059-017-Q1-K1-C10

<400> 12134

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gaccttcaac tcctaccatt gatcgtggga tagcattaca taagatgatt agacttatca 180  
caatgggttt aggaggagag ggctatctta atttcattgg aaatgagttt ggacatcctg 240  
aatggataga ttttccaaga ggtccgcaaa gacttccaag tggttaagttt attccaggga 300  
ataacaacag ttatgacaaa tgctgctgaa gatttgacct gngtgatgca tactatctta 360  
ggtatcatgg tatgcaagag tttgatcagg caatgcaaca tcttgagcaa aaatatgaat 420  
tcatgacatc tgatc 435

<210> 12135  
<211> 363  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-C11

<400> 12135

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gcgacgctcg ggtacgcca ggccggccaag gacaagcgtg tcatcgcgtg catcggcgac 120  
ggaagcttcc aggtgacggc gcaggacgtg tccacgatgc tccggtgctg gcagaagagc 180  
atcatcttcc tcatcaacaa cggcggctac accatcgagg tggagatcca cgatggcccc 240  
tacaacgtga tcaagaactg ggactacacg ggcttggtca acgccatcca taactccgag 300  
ggcaactgct ggaccatgaa ggttcggacg gaagagcagc tcaaggaagc catcgccatg 360  
gcg 363

<210> 12136  
<211> 440  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-C12

<400> 12136

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caccctcgag gtggagagca gcgacaccgt cgacaacgtc aaggccaaaa tccaggacaa 180

ggaagggatt cccccagatc aacagcgact gatattcgct ggcaagcagc tggaggatgg 240

acgcacgctg gctgactaca acatccaaaa ggagtcaact cttcatttgg tccttaggct 300

gaggggtgga accatgatca aggtcaaaac tcttactgtt atagagatcg attatgactt 360

ttatcttact tgatttatctt actgatcatt ggattctttt taatataatg tttgttatctt 420

ttctttatctt tatatttttt 440

<210> 12137

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-H2

<400> 12137

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actgtctacc tcaatggcta ccatgggtgat acatctgcta catttctttg cggatgatggt 120

gatgacgaag ctaagaaatt agttaagggtg acaagagaat gtctcgacaa ggctatatcg 180

atttggtcac ctgggggtgga gatcatacaa agtggttagaa ctatacagga tcatgcagac 240

aagtttaagt ttggtgtagt tagacagttt gttggccatg ggggttgcaa agttattcat 300

gctgaacctg ttgagcatta tttcagaaac aatgaagggg gacgtatgat gttgaatcaa 360

acatttacta t 371

<210> 12138

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-H3

<400> 12138

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gctccttggt ctttctgcaa gtgtgtgtac cgcaaccatt ttcccacaat gctcacaagc 120  
tcttatagct tcttttcttc ccccatacct ctcaccagcg gtgtcttcag tatgtgaaaa 180  
cccaattctt caacctaca ggatccaaca ggcaatcgca gcaggcatct tacctttatc 240  
acccttggtc ctccaacaac cgtcagccct attacagcag ttacctttgg tgcatttggt 300  
ggcacaaaac atcaaggcac aacaactaca acaacttggt ctaggaaacc ttgctgccta 360  
ctctcagcaa cagcagtttc ttccattcaa ccaactgggt gcattggact ctgctgctta 420  
tttgcaacaa caactacca 439

<210> 12139

<211> 93

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-H4

<400> 12139

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aaaaaaaaa aggaaaagat actaaaatac aat 93

<210> 12140

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-H5

<400> 12140

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ccaagaggc cttcagacaa gccctgcgt ctgcccctcc aggatgtgta caagattggt 120

ggtattggaa ctgtaccggt tggtcgtgtg gagactggtg tcatcaagcc tggatatggtt 180

gtcacctttg gtccaactgg cctgactacc taagtgaagt ctgtttagat gcaccacgag 240

gcgcttcacg aggctcttcc gggtgacaat gttggcttca actggaagaa cgtgtctgtc 300

aatgatctca agcgtgggtt tgaggccttc aactgcaagg atgaccctga caaggatgct 360

gtcagctata ccttccaggt cataatcatg aaccaacctg ggtcatattg gcaactgcta 420

tgccc 425

<210> 12141  
 <211> 263  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-017-Q1-K1-A11  
  
 <400> 12141  
  
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 ggtcacatac tcattgatat gtctgcaaat gctgctactg cgaccatddd accgcaatgc 120  
 tcacaagctc ctataacttc atttcttccc caaaaccctt taccagccct atcttaataa 180  
 tgtgaaaacc catttctaca accctacatg atccaatatg caatctgacc ttacatctta 240  
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 <213> Zea mays  
  
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 aagtttgagg actatatgcc ttcttcttgc ttacaaaatc aagtaccctg agaacttttt 240  
 tcttctgagg ggcaatcatg aatgcgcctc aataaacaga atatatggat tctatgatga 300  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-017-Q1-K1-A3  
  
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 tacgctatct gccatggctc aagagctcca cgaaacgtcc tcttgctctg ccaccaccac 120  
 ctcgctgtgc accacatcct gctgctcgtc cactgtcaca gactcgtcct cttcgccccc 180  
 gtcaccggcg gcggccaatg ccgcgcccg cgcacggaag cggcaggcgt tggaggccga 240  
 ggccgaggcc gaggcgggcg gtgaggagga ggaggaggag gaggaaggct gtgctggtaa 300  
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<210> 12144

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-A4

<400> 12144

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 cattattcca caatgctcac ttgctcctag ttccattatt ccacagttcc tcccaccagt 180  
 tacttcaatg gccttcgaac acccagctgt gcaagcctat aggctacaac aagcgattgc 240  
 ggcgagcgtc ttacaacaac caattgccca attgcaacaa caatccttgg cacatctaac 300  
 aatacaaacc atcgcaacgc aacagcaaca acagttccta ccagcactga gccacctagc 360  
 catggtgaac cctgtcgctt acttgcaaca gcagctgctt gcattcaacc cacttgctct 420  
 agcaaaa 426

<210> 12145

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-A6

<400> 12145

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 gtgtcagggc tcgtctcgaa ggcgatgtac tggaagcctt ctccctgcgc cttggtggcg 120  
 acgaggtagc cctggggtac gatgagcagc tgccccgcac ggagcacgtc gtcgaacacc 180

gtggtcccg tgtcgctggc gacctggacc cttgcactgc ccctgatgcc gtacatggcg 240  
ctgtgggcgt tgaagttcca gaacggcgac atgatggcgt cctggtacag gtctaccgcg 300  
accgcgctca tctgtacgag gttgaggacg gtgaacttgt ggctgggtgag gcatgtgatc 360  
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<210> 12146

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-A7

<400> 12146

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ctgcttgcat ccaacccact tgctctggcg aacgtagctg cataccagca acaacaacag 180  
ctgcaacagt ttatgccagt gctcagtcaa ctagccatgg tgaaccctgc cgtctaccta 240  
caactacttt catctagccc gctcgcggcg ggcaatgcac ctacgtacct acaacaacag 300  
ttgctgcaac aaattgtacc agctctgact cagctagctg tggcaaaccg tgctgcctac 360  
ttacaacagt tgcttccatt caaccaactg gctgtgtcaa actttgctgc gtacctacaa 420  
cagcgac 427

<210> 12147

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-A9

<400> 12147

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agctttgcag tctagttatc agtcttcaca gcaggcgatt tatcagcttc agcaacagct 120  
acaactaatg cagcagcagt ctaacctaaa tcagcaaccg tctgcgaggg ttggttcac 180  
tgcagtttct tcaacatgta actggacaga gcatacctcc cctgaagggt ttaagtacta 240  
ctacaatagc attactcgtg agagtaagtg ggagaagcct gaagagtatg tgctgtatga 300

gcaacagcag cagaaactgc ttttgcttca acagcaccaa cagaatatcg ctgtacagca 360  
actgcagtca ccgccacagg gtcaatcaact tccatccatg caaccgattc aacagcttc 419

<210> 12148  
<211> 396  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-H11

<400> 12148

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gggaacgcga tctgttcccc aacctccgca gccgctccac cgtcctccac tccggtctgc 120  
gaatcgaccc gccccgatcc agatcaggag ctgagggatg gacgcgaaca ggcgccagag 180  
tgggatccag cagttgctgg ctgcggagca ggaggctcag caaattgtga atgccgctag 240  
agctgccaag tcagcgaggc tcaggcaagc aaaagaggag gctgagcggg aaatagccga 300  
ataccgtgcc cagatggagg ctgagtttca gaggaaggtt gcagagagca gcggcgactc 360  
cgggtgcaaac gtcaagcgtc tcgaggaaga aacggc 396

<210> 12149  
<211> 303  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-F12

<400> 12149

cacaccgttg tcacacaagt gactgtacct ttgcacacat tcggctcacc gtttgcacac 60  
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cactgatgac tcaccgtttg ctactgttg gctcactgtt tgcacacaat ttgctcaccg 180  
tttgctgaca agactttcct gtgtgtcaga actagccatt gtcttcacat cgttggctca 240  
cttttttttc accattttcg caccgttata tcacattttt ctcacctttg tttgacatta 300  
ctt 303

<210> 12150  
<211> 186  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-F6

<400> 12150

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ccatccctag cgtcgtccca gtgccaaaggc gcagccggcc atcgactcaa tcgcacttga 120  
tgacccatga atgaacatta caagtacctt ctcaatctac tgcttatacg cgctcctgat 180  
gtagct 186

<210> 12151

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-F9

<400> 12151

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cgggttcgtg ggtgagcggg tcgagatggc ggcgtcggat gttgagtacc gctgcttcgt 120  
cggcggcctc gcctggggcca cggacgacca ctccctccac aacgccttca gcacctacgg 180  
cgaggtcctc gagtccaaga tcctcctcga tcgggagacg cagagggtccc gcggcttcgg 240  
cttcgtcacc ttctccacgg aggaggcgat gcggaacgcc atcgaaggca tgaacggcaa 300  
ggagctggac ggccgcaaca tcaccgtcaa cgaggcccag tcccgcggcg gccgtggaag 360  
cggcggcgggt gggtacggtg gt 382

<210> 12152

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-G1

<400> 12152

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gtatTTTTAT ccatttatta ggttgataac ctgagaaatc gctgtgagct tcaagaactt 120  
gagcttcaaa aatcagcaaa aaaagtacta gaggccatga cactgggttg cgaagaatct 180



gcaaaatcca aagctgcaaa agaagttata aaatctttaa ccgctcagct caaggatatg 240  
gctgagagat taccaccaga ccacggggcc tataatgtca atgagacaaa gcaatcacat 300  
aatccgaatg gcattgactc acatgctgct agctactcta gcatgaatgg aattcaccag 360  
acacggaatg agttgctcaa tgcttcaatt gcacatagtc tgaactctgg acgaccatcg 420  
tcgcattgca atggaa 436

<210> 12153  
<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-G10

<400> 12153

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caatgctcgc aagctcctat agcttccctt cttccccctg acctctcacc agcgggtgtct 180  
tcggtatgtg aaaaccaat tcttcaacct tacaggatcc aacaggcaat cgcagctggc 240  
atcttacctt tatcaccctt gttcctccaa caatcatcag ccctattaca acagttacct 300  
ttggtgcatt tattggcaca aaacatcagg gcacaacaac tacaacaact tgtgctagca 360  
aaccttgctg actactctca gcaacagcag tttcttccat tcaaccaaac aagttcattg 420  
aactc 425

<210> 12154  
<211> 358  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-G11

<400> 12154

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tcccagattc ggcttcgtgg gtgagcggat cgagatggcg gcgtcagatg ttgagtaccg 120  
ctgcttcgtc ggcggcctcg cctggggccac ggacgaccac tccctccaca acgccttcag 180  
cacctacggc gaggtcctcg agtccaagat catcctcgat cgggagacgc agaggtcccg 240

cggcttcggc ttcgtcacct tctccacgga ggaggcgatg cggaacgcca tcgaaggcat 300  
gaacggcaag gaactggacg gccgcaacat caccgtcaac gagggccagt cccgctgc 358

<210> 12155

<211> 332

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-016-Q1-K1-G12

<400> 12155

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aagaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa attaaaaaaaa aaaaaattaa naaaaaaatt aataaaaaatt aaaaaattta 180  
aaataaataa aaaaaaaaaa aataaaataa aaaaatataa aaaaaaana aaattaaaaa 240  
aaaattaaat taataaaaaa aaaaaaattt aaaaaaatt aaaattataa aaaattttaa 300  
aaaaaaaaaa aaaataaaaa aaataattta tt 332

<210> 12156

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-G3

<400> 12156

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tggctccggc cgccgccttc ctgtctgcgt ggcgcgctgg ttccattccc cgtgcgcctt 120  
tcctgatccc gaggcctctt cttctcccaa ttccgctctc ccctgcgcgc tgggaccgct 180  
cccgcagctg cagcctcttt ggcgtatgcg ccaacactcg ccgtgcgcca acccttcgac 240  
ggaacgcctt cacggagacg gtggttcctt acgtgccggg ctctggcaag tacatagcgc 300  
cggactacct cgtgaagaag gtgtcagccg aagatgtgca agatctggtg agggggcaga 360  
ggaaggtgcc gctcatcggt gacttctacg cgacctggtg ccggccctgt gttcagatgg 420

<210> 12157

<211> 351

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-016-Q1-K1-H1  
  
 <400> 12157  
  
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 gcaagttcgg gtcgattttg ctgtgtggca acgtcgcatt gtttttatgc tgttgccctt 120  
 ttttgcttgc tggtcgtagt gccactgtgt gttgttgaag tcgctggttt gaaactgcag 180  
 tcagttaact gtacgcgtcc tgctttgttt ttgtttgcgc gcgtgtgaaa cagacaaaca 240  
 gtctgatgat ttggtgtgtt cagggttgta aacaaacttt attagattct cactggatta 300  
 tactgcatga ctgtagtga aggaaaagaa gcaggtttga gttgtgaaga t 351

<210> 12158  
 <211> 425  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-016-Q1-K1-F11  
  
 <400> 12158

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 gcgcgcaagc aacattattc aagtatgggc cttgacctct ctaagggtat cattcgcaac 120  
 aaccttgagt atggcgtgat agagccatcg atgagcaaag taaagatcat tcagtttgcc 180  
 acggaggctg ccattactat cctgaggatt gacgacatga tcaagcttac caaggaagaa 240  
 gagggtaacg aagagtaagc agcccaccag tagtgggcta gtggactccc atgggatggt 300  
 tgccatagca tgtagcactt gttttttcac ttatcgttta cttttgcttg ctgtgagcat 360  
 tcgtttgtag gaaaagttag aacggatgtg tatcaatccg tgttngtga cgatgactca 420  
 cggat 425

<210> 12159  
 <211> 275  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-016-Q1-K1-C9

<400> 12159

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acggcgacct acagcgcggg ggcgccatgc acggcgaggc gcagcatcag cagaagcagg 120

gcgccatgat gacggcgctc aaggccgaga cggtcgcgac cttctgcggg tcgatgctgg 180

tgctgtccgg gctgatcctg gccggcaccg tgatcgcgct cacgggtggcc actcccatgc 240

tggtgatctt cagcccgggtg ctggtgccgg ccggc 275

<210> 12160

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-016-Q1-K1-D10

<400> 12160

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gtctggggaa catccccacc attgccttct gtgatactga ctctcccatg cggtatgtcg 120

atatcggcac cccagcgaac aacaagggga ggaacagcat tggatgcctg ttctggcttt 180

tggccaggat ggttctgcag atgaggggca ctatcctccc tgggcacaag tgggaggtca 240

tggtggattt gttcttctac agggacccag aggaagcaaa ggagcaggag gaggaagctg 300

ctgttgcccc tgagtttgcc gcaatcactg attaccaagg agctgatcag tggggtggtg 360

accagtggac ctctgatgtg actgcgccgc ctgttgctcc tactgtgnct gattgggggtg 420

ctgctccaac 430

<210> 12161

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-D11

<400> 12161

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gataatcaag ctggtgatat agtgatagca taccgactca ctgatccaat ctagttaaga 120

tcgaattatg atagggatta ggcgaatggt tacatgcact gtcattatcc attgaactgt 180

gatctgtttt tcatgcagaa tactgactca tttatgctta tgctcaacat actacaataa 240  
agcgagtctt gctatatcat tgttaaatgc acgttcatat 280

<210> 12162  
<211> 261  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-D2

<400> 12162

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ttttactcga ggaccacctt gtcagttata caagtctaag gcagtccttt cactatgttg 180  
gtcttgattt atctacgacg tcgatactga ttacagattg ttttgtattg tattttacga 240  
caattggatt ttatttgttt c 261

<210> 12163  
<211> 406  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-D3

<400> 12163

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atgccgtacg cagccacaag gacgtcgccg cagcagcaca gccgcgtggc cagcaacggg 180  
agggccgtgg cggcgtgcgc aggccacgcg ggcgtgccgg acgaggtggc gcggcaccac 240  
gaagcacgcg gtggccgcgg ggcagtgtg ctctgtgatg gtgcagtcca tcgcggcgcc 300  
ggcggacgcg gtgtggtcgc tgggtgcgcc cttcgaccag ccgcaggggt acaagcgctt 360  
catcaggagc tgccacctgg tggacggcga cggcgtcgag gtgggg 406

<210> 12164  
<211> 405  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-D4

<400> 12164

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gtcttcaact gctaggaaag cagtaccccc agtccctaaa ggcaaaaaga cgaaaccagg 180  
tcagaaggta ccaggtggct ctgcagccaa gcctatgcca tcttcagcag gtcctagtgg 240  
aagaggacca cacatgaata ggaattttcc aggtggttct gtcctgaag ctcaagctca 300  
gaatgtcgat ccattggttg gtcgtaaagt gatgagccgg tggcctgaag ataatagttt 360  
ttatgaagca aatatatctg attataatgc tggaacgggc cttta 405

<210> 12165

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-E1

<400> 12165

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tcagtacagg aacttccagc accccgatcc ctacattgtt ccatgggcac caggcggcac 180  
taaattcaca agaaaccccc ctccacctca agggatcgag atcatctaca attatggcaa 240  
ggaggaccag taaacaagag tcctgcaagc ggggggcaga acttccacag ttccaaatca 300  
cttcctgttt aatcgagttg ttgtacgaga aataagaatg gaaattactg gactccatcc 360  
atgcttctca tttgcttggt ctgataatca tgtgctcttc atctagtgca tattgaagtc 420  
atgtttcctg gcataaaaat ggaact 446

<210> 12166

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-E10

<400> 12166

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gaagagcagt tagtacaatc cttgagggag ttacttcttg caagcaaaca gctcccagat 120  
aagtttgatg actactatgt ccttctacgg tatgcccatt ttatttattt tctggaaaat 180  
ttatgttata tattgtcctt agactgacat aatccacca agtaacaggg gaagagatgt 240  
tttattcttc agtacttcta ggatgcctgt ttccttccag ttttgcactg aagagatcat 300  
gacctcattg ttctctgggc ttgcagctat cttaaa 336

<210> 12167  
<211> 421  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-E11

<400> 12167  
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cggcctacct gcttgctgtc ctcgctggga acgccagccc ctccgctgac gatttgactg 120  
ccattctgga gtcagttggc tgtgaagttg acaatgaaaa gatggaactc ctgctgtccc 180  
aactgagcgg taaggacatc accgagctca ttgccgcggg cagggagaag tttgcttcag 240  
tcccatgtgg tggcggcggg gtcgctgttg cggcagctgc acctgctgct ggcggagctg 300  
ctcctgcagc tgaagcaaag aaagaagaga aggtggaaga gaaggaagaa agcgatgatg 360  
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g 421

<210> 12168  
<211> 318  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-E2

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gctcccatga cctcccagca cccgcatac ctacacatga acaagagcac caggctgcgc 180

taaccaaca cgacaacat atacgcctca acgagccgtc accatatgca acaatcgcaa 240  
 agcggaccag ttgacacaac aactgccagc cctatgcata acgcacacag tggcacataa 300  
 catcatggca catcaact 318

<210> 12169  
 <211> 175  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-016-Q1-K1-E5  
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<210> 12170  
 <211> 395  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-016-Q1-K1-E9  
 <400> 12170

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 ggaacgccat cgagggcatg aacggcaagg agctggacgg ccgcaacatc accgtcaacg 120  
 aggccagtc ccgcggcggc cgtggaggcg gcggcggtgg gtacggtggt ggccgtggag 180  
 gcggcggtta cggcggtggc gggcgccgtg atggcggtgg cggctacggc ggtggcgggc 240  
 gctacggtgg cggcggcggc tactgtggtg gtggcgggcg ctacagcggg ggcaaccgtg 300  
 gcggcggtta ctgcaactcc gacgggaact ggaggaactg atcggtgggg cccgcgcggc 360  
 caaattatcc tggtcgctac cgtgatgttt accct 395

<210> 12171  
 <211> 458  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3059-016-Q1-K1-F1

<400> 12171

gattccccggt cgaccagcg ttcgacacac ctagegaagc gcactagcaa cgacctaaca 60  
acaatggcctt ccaagacatt atccctcctt gcgcttcttg ccctttttgt gagtgcaaca 120  
aatgcgttca ttattccaca atgctcactt gctccgagtg ccattattcc acagttcctc 180  
cctccagtta cttcaatggg cttcgaacac ccagctgtgc aagcctatag gctacaacaa 240  
gcgcttgccg cgagcgtctt agaacaacca attgccaat tacaacaaca atccttggca 300  
catctaacca taaaaccat cgcaacgcag cagcaacaag cactgagcca cctagccgtg 360  
gtgaacccta tcgctactt gcaacaacag ctgcttgcac ccaaccact tgctttggca 420  
aacgtagctg cataccaaca acaacaacag ttgcaaca 458

<210> 12172

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-F10

<400> 12172

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cttacgcgcg ccgatgccga tgccgcttcg tcgtcgtcgt cgtatttttc ctctcccggt 120  
gcccctgcta gtaatgctgc tgtggccacg gcgcggggcg acgacgagga tatcgacatc 180  
gtcgccattg tcaccggctg ctgcctcgcc tccgaggaag aatctaaggc tgccggcggc 240  
ggcgactacc cgcacttga cctcaacctc atcatggaca tcgtgaggat gaactagata 300  
gctacaaatt aaagatatac ctgccagtgc at 332

<210> 12173

<211> 215

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-C6

<400> 12173

tccgggctag acgtacgcgt acgcactctc ttacgatggc atgtgtaatg tcgagaagga 60

tat t t t t g t t g c a a t g c g t g c g g g a a a a a g g g a g t g c g t a g a g g c t c a g c t g a a c c t g a a t 120  
c a g a t a t t g t g c a g g c t t g c a g a a g c t t t c t a g a t c a a c a g c a g t g c a t t a a t g t g t g g c 180  
g a t t t a t c t a a a c t a t c a a c g a g a g a a a a g a c t t g 215

<210> 12174

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-A9

<400> 12174

g c c g g g c c g g a t c c a g c g c c g g c c c c t a c c t c g c g t c t c c g t c c a c c a t c g c g g g c g a c 60  
g a c g c g c c g c g t a g g a c c a a g g g c c g c g g c t t c c g c g a g g a c c c c a a c t c c t c t g c g c c c 120  
c g c g a t t c g c g c t t t g g c g c g g g g g a c g c g c g a c c t c g a c t c g c t c g g c g g c c c g g g a 180  
c c c a t c c a a t c a a t t g a a g g a t g g a t t g t g t g g t c a c t g g a g t t c a t g a a g a a g c t c a a 240  
g a a g a t g a c c t c c a a a a t g c t t t c c a a g a a t t t g g g c a g g t c a a a a a c c t g c a t t t g a a t 300  
t t g g a c c g t c g t a c c g g a t t t g t c a a g g g g t a c g c t t t g a t t g a a t a t g a a a a g t t g a a 360  
g a a a c t c a t g c t g c a a t a a a a g a a c t g g a t 390

<210> 12175

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-B10

<400> 12175

g t c c g c a g a a g g a t g a t g a t g a c t t c t g g t g a g g c t g t c a a g t a c a a g a g c t c a t t g t a c 60  
g c g a t t c c a g c a g a t c c t t a a g a a g g a a g g c c c c a a g t c c c t g t t c a a g g g t g c t g g t g c 120  
t a a c a t t c t t c g t g c c a t t g c t g g c g c t g g t g t g c t t t c t g g c t a c g a c c a g c t c c a g a t 180  
c c t c t t c t t c g g a a a g a a g t a c g g c t c c g g c g g t g c t t a a a t g g a g a a a a a t g a t g a c g a 240  
a c a a g a g c a g t t c g c t c c c g g t c c a g c c c a g t c a g g a t c t g g t c a a g t t t t t g c c t t t c a 300  
t a t c g a a g a a a t t a a t a a t t a t g t a g g a g a a t t t t t c c a a c a t t c g t t t t g g g c g g a g a 360  
c a t t g a t c t c a a a a c a c t c g t a a c t g t c c t a c t a g g t g g t g g c a t g g g t c c c a a a a c a t 420

<210> 12176  
<211> 395  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-B11

<400> 12176

agctttgtgc aagcgccact agtgctacgc atattccagg cacttgccac caggattgca 60  
ttgtgtacca tgaacccatg catgcagtac tgcgatgatgc aacaggggct tgccagcttg 120  
atggcggtgc cgtccctgat gctgcagcaa ctgttggcct taccgcttca gacgatgcca 180  
gtgatgatgc cacagatgat gacgcctaac atgatgtcac cattgatgat gccgagcatg 240  
atgtcaccaa tgggtcttgcc gagcatgatg tcgcaaata tgaatgccaca atgtcactgc 300  
gacgccgtct cgcagattat gctgcaacag cagttaccat tcatgttcaa cccaatggcc 360  
atgacgattc caccatggt cttacagcaa ccctt 395

<210> 12177  
<211> 405  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-B12

<400> 12177

cggacgcgtg ggttgccgtc tcccttttgc gtgagcaaag aaagagagcg agaagagcag 60  
tcgccatgtc tggcatcatc cacaagatcg aggagaagct ccacatgggg ggccgaccaca 120  
agaataagga ggaggagcac cacaagaagg ccgaggagca ccacaagaag gaggaggggg 180  
agcaccacaa gaaggacggc ggggagcaca aggaaggcat cgtggagaag atcaaggaca 240  
agatcaccgg cgagcacggc gacaagtccg gcgaccacaa ggaaaagaag gacaagaaaa 300  
agaagaagca cggcgagggc cagcaccacg acggcgccca cagtagcagc agcagcgaca 360  
gcgactgaga tctggtgtcg cagcacaggt gcaacacatg tatgc 405

<210> 12178  
<211> 437  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-B2

<400> 12178

ctcaagcatc agcggcagga gctctgggca gcggtgcgcac gtgggggtacc tagctcgctc 60

tgctagccta ccatggctga tcaccaccgg ggtgcgacgg gaggtggcgg gggctacggc 120

gacctccagc gcggggggcgg catgcacggc gaggcgcagc agcagcagaa gcagggcgcc 180

atgatgacgg cgctcaaggc cgcgacggcc ggcaccttcg gcgggtcgat gctggtgctg 240

tccgggctga tcctggccgg caccgtgata gcgctcacgg tggccacccc cgtgctggtg 300

atcttcagcc cgggtgctggt gccggccgcc atcgcgctgg cgctcatggc ggccgggttc 360

gtcaccttcg gcggcctcgg cgtcgctgcy ctgtccgtgt tctcctggat gtacaagtac 420

ctgacgggca agcacc 437

<210> 12179

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-B7

<400> 12179

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ttcaagaagg atagggatgg ctattggaag tgggttgctg gcaacctggc ctctggtggt 120

gctgctggtg cttcctcttt gttttttgtg tactccctgg actacgcgag aacaaggttg 180

gctaattgacg ctaaggctgc caagggatga ggtgaaaggc agttcaatgg gcttggcgat 240

gtctaccgca agacactcaa gtctgatggt attgctgggc tataccgtgg atttaacatc 300

tgctgtgttg aaatcattga ttatcgtggt cagtactttg ggctctatga ttccatcaag 360

ccagttgtac ttactggcaa cctccaggac aatttctttg ccagtttcgc tctggggttg 420

ctgatcacta at 432

<210> 12180

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-B9

<400> 12180

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tggcctcctt atgctccttg gtctttctgc aagtgtgct accgcgacca ttttcccgca 120  
atgtcacaa gctcctatag ctcccttct tccccgtac ctctcaccag cgggtgtcttc 180  
ggtatgtgaa aaccaattc ttcaacccta taggatccaa caggcaatcg cagctggcat 240  
cttaccttta tcacccttgt tctccaaca atcatcagcc ctattacagc agttaccttt 300  
ggtgcattta ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa 360  
ccttgtgcc tactctcagc aacagcagtt tc 392

<210> 12181

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-C1

<400> 12181

cggacgcgtg ggcggacgcg tgggctttct cctactctc agcaacaaca atttctggca 60  
ttcaaccaac tgtctacact gaaccctgct gcttatttgc agcaacaact attaccattc 120  
agccagctag ctactgcta ctctcagcaa caacaacttc ttccatttaa ccaattggcc 180  
gcactgaacc ccgctgctta ttgacagcag caaatactac taccatttag ccagctagct 240  
gcagcaaacc gtgcttcctt cttgacacag caacagttgc tgcctttcta ccagcagttt 300  
gcggttaacc ccgcaaccct cttacaacta caacaattgt tgcctttgt ccaacttgct 360  
ttgacagacc cagcggcctt ctaccaaaaa cacatcattg gtggtgccct ctttt 415

<210> 12182

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-016-Q1-K1-C11

<400> 12182

gccagttaac ttccaattac tggggtttcc acgtttaagg ttgctcctat gaaggctgca 60

agtaacttca ataagatcca atgtttctgc tttgaggagc aaacacttct tcctggagaa 120  
 cagattgaca tgccagtatt cttctatata gatcctgagt ttgagacaga ccccaaaatg 180  
 gacggngtga acaatatcgt tctttcgtat acattcttca aggtgaacga tagttaggaa 240  
 acgtgccaac agcattgttg tattaggaaa acaacacttg aacaatccat atgcagatat 300  
 gctgcggaat agcatctcat gtaacaccaa gagttttttt tggtagttag ctcacgttag 360  
 tctgtggaga attttgcaaa aaaaaaaaaa aaaaaaaaaa aaactagaaa aaaagggcgg 420

<210> 12183  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-C12

<400> 12183

ggctgacagc gttcaccagc tggacgctcc acgtcttggg gttcttccct gtaggctaga 60  
 acgtacgtcc caagctgtcc ggcattggacc aggttcaagc cggcagtcct tacggcgcca 120  
 gcacattcga cgccgacagc ttcgaggtgg ccgaacgagg tggagctgga gcacgccttt 180  
 caccagggga agtacttctc aggcattgcc atacagctca agggttcaac ctgatctaca 240  
 catataccct tgacggatat catataagac acttattaca gattcgtctt acccatcaat 300  
 agatcgggtct gatctctcgt ggtgtctgga tgttgtgtgg ctcatgtgaa ctttcatgct 360  
 acggtgactt tgaatgtaac tggaatttgg aatattcgtt gtttaatgca atttcgatga 420  
 tttgctcaaa t 431

<210> 12184  
 <211> 415  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-C2

<400> 12184

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 gcttgcatca aaccacttg ctctggcaaa cgtagttgca aaccagccac aacaacagct 120  
 gcaacagttt ctgccagcgc tcagtcaact agccatggtg aaccctgccg cctacctaca 180

acagcaacaa ctgctttcat ctagcccgct cgctgtggcc aatgcaccta catacctgca 240  
acaacaattg ttgcaacaga ttgtaccagc tctgactcag ctagttgtgg caaacctgc 300  
tgcctacttg caacagctgc ttccattcaa ccaactgact atgtcgaact ctgctgcgta 360  
cctacaacag cgacaacagt tacttaatcc actagcagtg gctaaccat tggtc 415

<210> 12185  
<211> 440  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-C4

<400> 12185

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acttttagaaa gggagtagct ggaggctcag ctgaacctga atcagatatt gtgcaggctt 120  
gcagaagctt tctagatcaa cagcagtgca ttaatgtgtg gcgatttatc taaactatca 180  
acgagagaaa agacttgaca gagaacctga agcagctaca gtgcaggaca ctaatttttg 240  
ttggtgagaa ttcccagttc catgctgaag ttgtgcacat gactgcaaag cttgataggc 300  
gatatagcgc tcttgtggag gtacaagctt gtggctcggg tgtgacagaa aagcaaccac 360  
acgcaatgct gataccaatg gagtactttc tcatgggata tggactgtat aggccaagac 420  
agataaacta tagccctcgt 440

<210> 12186  
<211> 361  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-A8

<400> 12186

cccacgcgtt cgccacgcg tccgcccacg cgtccgccca cgcgttcgcc caggcgtggg 60  
cccacgcgtc cgcgacgcg tgggaagaag atagacggat cctcccggtg aacgaacatg 120  
tcgccaagag agtggatcca cgacggagac tacaccccg taatcgtggt catgattttc 180  
attgtgctgc tcacagtcgc gttcgtgctt ttctccatt attgctttgg gtaccgtatc 240  
gttcatgctc actggatatg actttgaatg ctatgtgatg ctcaagtatc tcatttgcgt 300

tgacagtgtc ctttccaagc gggcacatca tgatataaag aattcaaacc cttatgaggt 360  
t 361

<210> 12187  
<211> 424  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-H2

<400> 12187

cggacgcgtg ggttttagca accggttcct gaagtctggt gttcaaaagg ctggtaggaa 60  
aacgagatac gagagagctg gaaatgagca atttgtgaca gagacaagca aatgggtctt 120  
ccatgagagg gggcacctta aggctgttaa tgttaagcac cacaaggttg gggagaccaa 180  
tgaaccaggc atgtaccgca ttaacgatga cctggaatac tctgttgaga tctatgaatg 240  
gtctggaaca agctggaagc catatgttgc tgatgatgtg caactccagt ttttcatgat 300  
gagtccttat gttctgaaaa ctatgtcgaa tgacaacaag ggtttatact caacatcctt 360  
caaagttcct gatgtctacg gagttttcca gttcaaagtt gagtaccaga ggctgggata 420  
tact 424

<210> 12188  
<211> 381  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-H3

<400> 12188

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ggggctctcc ctgctacgcg taaccaaggt caccggcggg gctcccaaca agctctccaa 120  
gatcaagggt gtgcgcacct ccatcgcgcg cgtgctgacc gtcctctcg cagaagcagaa 180  
gtcggcgctg cgtgaggcgt acaagaagaa gaagctgctc ccgctcgacc tccgccccaa 240  
gaagacccgc gccatccgca agcgcctcac caagcaccag ctcttcttga agaccgagaa 300  
ggaaaagaag cgcgagaaag tatttcccat gaagaagtac gctatcaagg cctagatcag 360  
tgaaagaaca tttatcctgt c 381



<210> 12189  
<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-H4

<400> 12189

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ggtggagttc ttaagctcga actcttttta cctgaggaat atccaatggc tgcccaaaag 120  
gttaggtttc tgacaaagat ttatcatccc aacatcgaca agcttggtag gatatgcctc 180  
gacattctca aggacaaatg gagcccagca cttcagattc gaacagttct tttgagtata 240  
caggctctac tgagtgcgcc aaatccagac gaccctcttt cggataacat tgcaaagcac 300  
tggaagcca atgaagtaga agctgtcgaa acagctaagg agtggactcg cctgtatgcg 360  
agcgggtgat gagaacgcag tgatgttctt gatgtaataa cccatcatac ttcagtcctc 420  
atctattgcc atttgcttga ta 442

<210> 12190  
<211> 439  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-H5

<400> 12190

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ggaagagaag tgcgttctg ctgccatttg ttttgtatca ttccttccag acatccttga 120  
ttcaaaggca gaaggaagaa acaagtacct tgagctcctg ctctctgtag ctgagaagtt 180  
taaaaagagt ccatacagtt ttgtctggac agctgctggc aagcaagcta atctcgagaa 240  
ccaggttggt gtgggcggct acggctatcc cgccatggta gctctcaacg tgaagaaagg 300  
tgcatacgct cactccgta gtgccttcca gcgcgacgaa atcatcgagt tcgtgaagga 360  
ggcaaggcgt ggtggaaagg gaaaccttcc tctgaacgat gcacctacag tagtcgcgtc 420  
cgaaccgtgg gacggcaaa 439

<210> 12191  
<211> 443  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-H7

<400> 12191

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agcaacaacc taacaacaat ggctaccaag atattatccc tctttgcgct tctttgcgctt 120  
tttgcgagcg caacaaatgc gtccattatt ccacaatgct cacttgctcc tagttccatt 180  
attccacagt tcttcccacc agttacttca atggccttcg aacaccagc tgtgcaagcc 240  
tataggctac aacaagcgat tgcggcgagc gtcttacaac aaccaattgc ccaattgcaa 300  
caacaatcct tggcacatct aacaatacaa accatcgcaa cgcaacagca acaacagttc 360  
ctaccagcac tgagccacct agccatgggtg aaccctgtcg cctacttgca acagcagctg 420  
cttgcattcca acccacttgc tct 443

<210> 12192  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-H8

<400> 12192

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caatagtgtg ccaacaatgg cagccaaaat attttgcttc cttatgctcc ttggtctttc 120  
tgcaagtgtc gctaccgcaa ccattttccc acaatgctca caagctccta tagcttcctt 180  
tcttccccca tacctctcac cagcgggtgtc ttcagtatgt gaaaacccaa ttcttcaacc 240  
ctacaggatc caacaggcaa tcgcagcagg catcttacct ttatcaccct tgttcctcca 300  
acaaccgtca gccctattac agcagttacc tttggtgcat ttgttggcac aaaacatcaa 360  
ggcacaacaa ctacaacaac ttgtgctagg aaaccttgct gcctactctc agcaacagca 420  
gtttcttcca ttc 433

<210> 12193  
<211> 430

<212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-015-Q1-K1-H9  
 <400> 12193

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gcgagccacc gccctcgtga agcacctcgg gcacggcgac tgccgactga cccggtcagc  120
ttgattagga aatatggtta tccctccacc agctagggct cctgcaatca ccaagttcct  180
caagccgtat attttgaaga tgcatttcac aaacagtttc gtgagcgctc aggtcatcca  240
cacaccgaca gccacggtcg catgctctgc aagctctcag gagaaactcc tgaggccaag  300
catggagtcg acacgggatg ttgctgcggc tgcaaagatt gggaagttgc ttggagagcg  360
ctngctgttc aagggtatcc ctgcagtatc tgtctccatg tcaagagacc agaagtacca  420
tggaaggtc                                     430
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<210> 12194  
 <211> 366  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-016-Q1-K1-A1  
 <400> 12194

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tccgggggttc ggggtcgtgg gtgagcggat cgagatggcg gcgtcggatg ttgagtaccg  120
ctgcttcgtc ggcggcctcg cctgggccac ggacgaccac tccctccaca acgccttcag  180
cacctacggc gaggtcctcg agtccaagat catcctcgat cgggagacgc agaggtcccg  240
cggcttcggc ttcgtcacct tctccacgga ggaggcgatg cggaacgcca tcgagggcat  300
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ccgtgg                                     366
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<210> 12195  
 <211> 406  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-A10

<400> 12195

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acgtctaggg aggagggata tgatccatag tttccttttg gattgttcta ctaccagatg 120  
tgcgttttgt ttacagaagt gcgggtttttt acatttgcac ttatacgcgt attttgcagt 180  
catgtaatgt aattgaaggg gtaagtgatt tttttagttc ctcttgtecc ccctaggaac 240  
atgttggacc tctgtaaatt gttcgtttga actttgaaat gtacatcggc tgtgttctgc 300  
caaaaaaat aaaaaatata aataatataa ttataatata atttataaat aatttaattt 360  
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<210> 12196

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-A12

<400> 12196

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cgagagcacc ccgtcttccc gctactcccg caagggcgct cgtcgcttcc ttctccgggg 120  
cgtggcaggg accttctggt agagcgagag cgagagcagc gccgccggca gttcgcgcta 180  
tggcggtccc gcaggtgttc cgggctcagc agcagcagca gcagcagttc ccggctcagc 240  
agcaggagtc ccagccgggg aaggagcacg cgatggaccc ccggcccagag gccatcgctc 300  
aggactacaa ggccgccaac aagctcaagg acaaggtggc gctcgtgacc ggcggcgact 360  
ccggcatcgg gcgcgccgtg tgcctgtgct tcgcg 395

<210> 12197

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-A2

<400> 12197

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catcttgctt gtgtacgatg tcacagacga gtcattctttc aataacataa gaaattggat 120  
cagaaacatt gagcaacatg cttcggataa cgtgaacaaa attctggtgg ggaataaagc 180  
tgatatggat gaaagcaaac gggctgagcc cacttcgaag gggcaagctc tcgctgacga 240  
atacgggata aagttttttg aaacgagtgc aaaaacaaac ctgaatgtcg agcaggtttt 300  
cttttccata gcaagggaca tcaaacagag actgtcggag accgattcca agcctgaaga 360  
tcgaactatc aagatcaagg ctgaagggga agct 394

<210> 12198  
<211> 357  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-A3

<400> 12198  
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aggatgtgca atccactgca tctgatcctg catctaaagc caatggtact gtaaaagact 120  
gcaatggtgt tgctgcagca gcattggagc aagatgcac ctcatttgat gtccttgaca 180  
agcatacgaa tgtccccaac agtggagaaa aagtcagcga agggcaaagt acagattgca 240  
acgccggaaa gagcagtgtc tcggtctctg cttctgggtc ctcagagccc cttgcaccaa 300  
cacagatggt gaatggacaa cctgcttcgg tagactcca gaaagtgacc cagaatg 357

<210> 12199  
<211> 216  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-A4

<400> 12199  
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gcacttcatt gtcgagattg ctgtgtgtgt aacgtttcca tatagaccag ttcagcagct 120  
tgtgtccaca atcataacca gagcagttgc agctttctca gcaaggggtg ttgatccaca 180  
aagtgttctt cctgaggaca gttggtttgt ctacac 216

<210> 12200

<211> 302  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-016-Q1-K1-A6  
  
 <400> 12200  
  
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 tcaactatat atcaatctcg tcgccggcag ctctggcatg tttgagtatg tgttgcttct 180  
 ctgtgggtgcc ggcgacgatg gctgctagta ctgttaatgt gatcgggtct ccttgaacaa 240  
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 cg 302

<210> 12201  
 <211> 420  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-016-Q1-K1-A7  
  
 <400> 12201  
  
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 atcacccctg ttctccaac aaccgtcagc cctattacag cagttacctt tgggtgcattt 180  
 gttggcacaa aacatcaagg cacaacaact acaacaactt gtgctaggaa accttgctgc 240  
 ctactctcag caacagcagt ttcttccatt caaccaactg gctgcattga actctgctgc 300  
 ttatttgcaa caacaactac cattcagtca gctagctgct gcctaccccc agcaatttct 360  
 tccattcaac caactggcag cattgaactc tgctgcttat ttacaacagc atcaactacc 420

<210> 12202  
 <211> 456  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-015-Q1-K1-H12  
  
 <400> 12202

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 tgcagcgcggt gcgctgctgg gagtacaggc agcagccgtc catcgccgc ctcaccaggc 180  
 ccacccgccc cgacaaggcc cgtcgtctcg gctacaaggc caagcaggga tatgttgtct 240  
 accgtgtccg tgtgaagcgt ggtggcagga agaggcctgt gcccaagggt attgtctatg 300  
 gcaagcccaa gcaccagggt atcacccaac tcaagttcca gaggaacaag aggtctgtcg 360  
 ctgaggagag agctggacgt aagcttggtg gactgagggt tcttaactcc tactgggtga 420  
 atgaggatag tacctacaag tatttngaga tcatcc 456

<210> 12203  
 <211> 295  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-015-Q1-K1-F8  
 <400> 12203

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 ctcaactttg agtatctggt ctcacgcaag aagtatgtga tttcaataga tgacaattgc 120  
 ctaccagcta acgacactga tgtgtcgact gttgatgtat ctgcacagca catgtccaat 180  
 ctgaaatcac gtgctacaca tttctttttc aacacactct atgatccata caggaaagggt 240  
 gctgactttg tccgttggtt cacattcagc ctgtgcgagg tggttgagtg catgc 295

<210> 12204  
 <211> 439  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-015-Q1-K1-G10  
 <400> 12204

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 attggtggtt gtgctctagc tgctgtcaca gagctgaact ttaatattgg tggatttatg 120  
 ggtgccatga tatccaacct tgcatttggt ttccgcaaca tcttctcgaa gaggggcatg 180  
 aaggggaagt ccgtcagtg catgaattac tacgcttgcc tgtcaattat gtccttggtc 240

atactgactc catttgctat agctatggaa ggcctcaaa tgtgggctgc tggttggcaa 300  
aaggctcttg cagaagttgg acccaatgtt gtctgggtga ttgctgcaca gagcgtgttc 360  
taccacttat ataaccaggt gtcctacatg tctctcgatc agatttctcc attgacattc 420  
agcattggca atacaatga 439

<210> 12205  
<211> 437  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-G11

<400> 12205

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ggtcttgcat cttaccccat tgatactgtc cgcagaagga tgatgatgac ttctggtgag 180  
gctgtcaagt acaagagctc attggacgca ttccagcaga tccttaagaa ggaaggcccc 240  
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ctttctggct acgaccagct ccagatcctc ttcttcggaa agaagtacgg ctccggcggt 360  
gcttaaattg agaaaaatga tgacgaacaa gagcagttcg ctcccggtcc agcccagtca 420  
ggatctggtc aagtttt 437

<210> 12206  
<211> 377  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-G12

<400> 12206

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aaggaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaatgacg aaacctaata aaaaaaaat 240  
aatattaaaa acaattataa aaaaataaat atatataaaa atacaccaa aaaaaaaat 300



atatccaata gttaaaaaat cactaatttt aaaaaaaact attaatTTaa aaaaaaataa 360  
 taatctaaat aataatt 377

<210> 12207  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-G3

<400> 12207

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 aaaagggcgc gggcgggcgc aagggccgcg ggccgaggaa gaaagtcgtg acgaggtccg 180  
 tcaaagccgg gctgcagttc cccgtcggcc gcatcgggcg gtatctgaag aagggccggg 240  
 acgcgcaacg cgtcgcacg ggccccccg tctacctggc gcgcgtcctc gagtacctgg 300  
 cccgcgaggt gctggagcct ggccgcaacg ctgccaaagga caacaagaag acccgcatca 360  
 tcccgcgcca cgtgctcctg gccatccgca acgacgagga gctcggcaag ctgctgtccg 420  
 gcgtcaccat cgcccacggc ggcg 444

<210> 12208  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-G4

<400> 12208

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 tatgccaaac aggtgcccaa gaccgcggag aacttccgcg cgctgtgcac gggcgagaag 180  
 ggcgtgggca agtccgggaa gccgtccac tacaagggtt ccaccttcca ccgcgtcatc 240  
 cccgagttca tgtgccaggg cggcgacttc acccgcgga acggcaccgg cggcgagtcc 300  
 atctacggcg agaagttccc cgacgagaag ttcgtgcgca agcacaccgt ccccggtgtg 360  
 ctctccatgg ccaacgccg gcccaacacc aacggctcct agttctgcat ctgcaccgtc 420

tcgacctctt ggctcgac

438

<210> 12209  
<211> 443  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-G6

<400> 12209

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggaaaa 120  
aaaaaaagga ggatcaaggt aaaggaacca aaaaaaggaa cgaaaaaaat aaaagaaaaa 180  
agtcacaaaa atgaaatcca taggaccaat gattaaaaac gtagttgaag ggaaaaacaa 240  
tgggaaaacc caagtaaaac cccatgtaaa acaggcaaat ttaaacagct ggtaaaatag 300  
cgaagaggcc agaaaaaagg cctttaccaa acaggggaaa aaccaaagg gcaaatggaa 360  
cgggcattgg aaaggccttt aaagcgcgga ataagaaggg gaaacgcca gggtaacgc 420  
aacagtggcc agtgcttttag cgc 443

<210> 12210  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-G7

<400> 12210

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tgacaatgtc aaggccaaga tccaggacaa ggagggcatc ccaccggacc agcagcgcct 180  
catcttcgcc ggcaagcagc tggaggatgg cgcaccctg gcggattaca acatccagaa 240  
ggagagcact ctccacctgg tgctccgtct caggggtggc atgcagattt ttgtgaagac 300  
attgactggc aagactatca ccttgagggt ggagagctct gacaccattg acaatgtgaa 360  
ggccaagatc caggacaagg agggcattcc cccagaccaa cagcgtctga tctttgcggg 420  
caagcagctg gaggat 436

<210> 12211  
<211> 411  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-G8

<400> 12211

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ggcgggcgcg gcgggcgcg cgggccggtg gcggttggct ttgggacccg gcaagccagg 180  
gcccggcttc cggggacccg gcggccgaag aggggagagg accatatgaa cgcgagagg 240  
aagaacgtgg ggggcgcgcg aaaagagggc cccggcgaca ctctcgccgg gggagagcgt 300  
attgcgcggg ctacactct gcgggtccta cagcgtatcg aggtgaacga cggcgtgggc 360  
atgaggttcg tgtcgttgtt cgccgagatg ttccagaaga tctggtggat c 411

<210> 12212  
<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-G9

<400> 12212

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accgccgcg gttcatctac cgccgcgggt gcattctgcca cctccggttc acctgccacc 180  
tctgtgcat ctcccaccgc cggteccact gccgcgcgcg gtccacctgc caccgccggt 240  
ccatgtgccg ccgccggttc atctgccgcc gccaccatgc cactacccta ctcaaccgcc 300  
ccggcctcag cctcatcccc agccacaccc atgcccggtc caacagccgc atccaagccc 360  
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<210> 12213  
<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-H10

<400> 12213

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ggcttcgtac aaccagtggg tatcttggat ctgagtttca agaattctatg gactcatctt 180  
tgtctcaagt aatcgctgaa acaccaactt cagcaactga acttcgctcag catgggtttt 240  
cagaatctcc aggttctggc ttgaggcagc attttgcagc tgaaaggaaa tgggcccttg 300  
gtcttcagtc tcgagcacat tcacgagaaa taataagtga agtgcttaaa gctctgcaag 360  
aactgaatgt ttactggaaa aagattggac actacaacat gaaatgcaga tggagtcctt 420  
gctgccttga gagtatgatg ca 442

<210> 12214

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-F7

<400> 12214

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ataccatatt aatatgtagt attatttcct catggtacca tgacactatt catgcgaaca 180  
accaccaatc aaactttcaa ttcatcactt acacaggata aaccttctac tgatctatct 240  
aattcttttt cttacagttt cagactataa ctcgatctta tacacaaatt ataaacacag 300  
agctatgacg atcactaact catcaatcct ttatttctcaa atcattataa ccctgtaata 360  
ccaacatgtc tcatatgatc atactataat acttactt 398

<210> 12215

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-015-Q1-K1-E11

<400> 12215

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gtggaggtgc cggcgagagct ggtggcgggc gggagccgga cggcgtcgcc caagacgaag 180

gcgtccgagc tcgtcgcgcg cttcctgggg accagctgcc ccgccgccgt gtccgtgcgc 240

ctcgccgacc tcggccacct cgcctactcc cacgccaacc aggcctcctt ccgcccgaag 300

tcgttcgcgg cgaaggacga ggtgttctgc ctgttcgagg ggggtgctgga caacctgnng 360

cggctgagcc agcagtagcg gctgtccaag ggcgccaacg aggtgctcct ggtcatcgag 420

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<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-015-Q1-K1-E12

<400> 12216

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gacccatcgg aaaggagtgc gcggatctct ggcccaggat tgctagcgcg gcaaatgcga 180

ttgtctaaag gaagcagttt gtcaaagttc cattttaaag ggggacttga gaagggagtt 240

cttagttagg cgagctttcg attgccctga atatgtttcc ccggctaagc cttgtgctgc 300

tggaccgttt cctgatagct ttgctttgat gacatcctcc ccgttatcga taaagttgcg 360

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cat 423

<210> 12217

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-E8

<400> 12217

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 tacaagcggc agctgcgggt gccagccacc gccgccggtt catctaccgc cgcgggtgca 180  
 tctgccacct ccggttcacc tgccacctcc tgtgcatctc ccaccgcggg tccacctgcc 240  
 gccgccggtc cacctgccac cgcgggtcca tgtgccgccg ccggttcata tgccgccgcc 300  
 accatgccac taccctactc aaccgccccg gcctcagcct catccccagc cacacccatg 360  
 cccgtgcaa cagcgcgcatc caagcccgtg ccagctgcag ggaacctgcg gcgttggcag 420  
 caccgccatc ctgggccag 439

<210> 12218  
 <211> 420  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-015-Q1-K1-E9  
 <400> 12218

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 ttctcgtctg gcggggcgcc gccgtacgcg caggggtgga cgttcgtggt gtccgacata 300  
 acgcggtatc gggaggacga gttggacctg ggggtggcgg agcgggtggc cggcggcgtg 360  
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<210> 12219  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-015-Q1-K1-F10  
 <400> 12219

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cagctctgac tcaactagct gtggcaaacc ctgttgcta cttgcaacaa tttcttccat 120  
tcaaccaact gtctacactg aaccctgctg cttatttgca gcaacaacaa ctactaccat 180  
tcagccagct agctactgcc tactctcagc agcaacaatt tcttccattt aaccaattcg 240  
ccgcactgaa cccctctgct tatttccagc agcaaatact actaccattt ggccagctag 300  
ctacaacaag ccccgcttcc ttcttgacac aacaacaatt gcttccgttc taccagcagt 360  
ttgtggctaa ccncgcaacc cttttacaac tgcaacagtt gctgcccttt gtccaacttg 420  
ctttgacaaa cccagcagcc t 441

<210> 12220  
<211> 395  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-015-Q1-K1-F11

<400> 12220

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atgaagttgt tggaaccgca aggggccgcc gagctgcttt tagcctcacc gagaatggat 180  
attgtgacac ggagcaccaa aactgtaaag tgggtctactg ctgctcgcat ccacagccaa 240  
agcattgcta tgccactttt atgcagtgtc gggccaattg ctacgttcat aaacgcaagt 300  
gatccatatc tgatgctgtg gttctaaaaa catcatcatt gttagcttaa acaatgtact 360  
ttacaatggt tggtaatata ataatatggn gaagt 395

<210> 12221  
<211> 431  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-015-Q1-K1-F12

<400> 12221

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cggcctccgc tacctgtctc cgcggcggag tcagagcccc ctgacgccgg cgctgtggaa 180  
 gccgaaggtc agggacccgt ggagctccgc gctccgacgc tcttctcgac tgatgacaat 240  
 cccacccccgc tccagactgc caccagtctc ctctcaccg gcgccatctc ggtcttctc 300  
 ttccgcgccc tccgccgccg cgcccgccgc gccaaaggagc tcagagtgcg gtcgagcggg 360  
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 tnaccgatcg a 431

<210> 12222  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-F2

<400> 12222

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 gcaagcggac cctcaagctc gtgcgacgag cctctgaggc caagtgcctc aagcgcggag 180  
 tcaaagaggt agtcaagagc attcgccgcg ggaacaaagg gttgtgtgtg attgctggaa 240  
 atatttctcc tattgatgtg attacacacg ttccaatact atgtgaggaa tctaattgtc 300  
 cttacatata tgttccatca aaagaggatc ttgcgaccgc gggaaccact aagaggccaa 360  
 cttgttgctg cctggttctg accaaaccaa acaaggtgga gctcagtgc gaggtgaaag 420  
 ataaactga 429

<210> 12223  
 <211> 439  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-F4

<400> 12223

cccacgcgtc cgcccacgcg tccgcgcaaa ttgcaccaag aaatccatcg agaggccggc 60  
 ggcaggggaa ttaatggcgt cgtcgtctag cagcagccac cgccgcctca tctcgcagc 120  
 cgccgtcctg ctctccgtgc tcgcggctgc cagcgcacgc gccgggacct cctgcgtgcc 180



ggggtgggcc atcccgacaca acccgctccc gagctgccgc tggtagctga ccagccggac 240  
 ctgcggcatc gggccgcgcc tcccgtaggc ggagctgaag aggagatgct gccgggagct 300  
 ggcggacatc ccggcgtagt gccgggtgcac ggcgctgagc atcctcatgg acggcgcgat 360  
 cccgccgggc ccggacgcgc agctggaggg ccgcctagag gacctgccgg gctgcccgcg 420  
 ggaggtgcag aggggattc 439

<210> 12224  
 <211> 440  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-F5

<400> 12224

cccacgcgtc cgctactata ctataactcta ggaagcaagg acaccaccgc catggcaggc 60  
 aagatgcttg cattgttcgc tctcctagct ctttgtgcaa gcgccactag tgcgacgcat 120  
 attccagggc acttgccacc agtcatgccca ttgggtacca tgaacccatg catgcagtac 180  
 tgcgatgatgc aacaggggct tgccagcttg atggcggtgc cgtccctgat gctgcagcaa 240  
 ctgttggcct taccgcttca gacgatgccca gtgatgatgc cacagatgat gacgcctaac 300  
 atgatgtcac cattgatgat gccgagcatg atgtcaccaa tgggtcttgcc gagcatgatg 360  
 tcgcaaataa tgatgccaca atgtcactgc gacgcgctct cgcagattat gctgcaacag 420  
 cagttaccat tcatgttcaa 440

<210> 12225  
 <211> 439  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-F6

<400> 12225

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 aatatctgaa gtgattgaga ctgtcaagca gcaagttaag gatgctaaat ttcctgattt 120  
 agaggttatt cgcattgttg gggatgtgct catggaggct gttcagtggc ctgggaagaa 180  
 ccagcagcaa aattccaatg cagcacttag gcagggtgaaa gcttggactg agctttttgaa 240

tgctttttgc acgagtggca gactcgaact ggaacttata cacaaagttc agacacagtg 300  
 ctatgaggat gctaagctga tgaagctgtt tccggaaatc ataagaacac tgtatgacca 360  
 agatgtccta gctgaagata ctatagtcct ttgggtccgt aaaggttcaa acccgaaggg 420  
 caggcaatct tttgtgaaa 439

<210> 12226  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-E10

<400> 12226

aggtggttga ggtaaattgtt aaagtggaaa gtgcaggcac acataatgtg cataatagtg 60  
 ctttctatgc tgaagagaag ttgctgaaat ctgagttgca agcaatgcgt gattgcgacc 120  
 cttcatctgc ccgccactgg attgtacgca acacacgaac tgtgaatcgg acggggcagc 180  
 caactggcta caggctcgta cctggttcga actgcctgcc tttggctctg cctgaggcga 240  
 aatttctgag gagggctggg ttcttgaagc acaacctctg ggtcactcaa tacaagcgtg 300  
 gcgagatgtt ccctggaggg gagtttccca accagaatcc tcgcatccat gagggctctgc 360  
 caacatgggt caagaatgat aggcctctgg aggaaaccga cattgttctc tggtagctgt 420  
 tcgggctc 428

<210> 12227  
 <211> 440  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-C6

<400> 12227

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 cagggagttt tcagttctac tccagaatgg ttggttccca aaaatcttca ttgttcttct 120  
 cagtggagtg gtggcagcat tttacttcta tcgcattgca actggtaacc ccaaagatct 180  
 gagcagcaag aatgattcag cgaactaatg cactgggacg agtcagatgg tcagtgggac 240  
 gtagaccag aagattatgg tctgttcctt tccattttct tcatcggcct tcaattgagg 300

caaagctcgg tcctagcgtc taagatgtct gcgtgatgat acatggattc aaaagaattg 360  
 tttgcttatac tggcccactt cccgcactcc tttgttcctt tactcgtgta atatactaag 420  
 atgtcaggcc cgcttaaaca 440

<210> 12228  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-015-Q1-K1-C7  
 <400> 12228

cctgtatcgg cgctctccac cgccccggcc ccttcctcca ccagcgcgcc gccggctggg 60  
 tccacttcct cgcgccgcac aggaagaccc gaccgcccc cgcgatgagc tggcttggga 120  
 agctgggcct gagcgggctt ggaggcagcc cgcgcgcgtc ggaggcgctg gcagcgcctg 180  
 cgcagggggc cgacgaggac cagcccgcgc cggggaacga gttcgcgcaa ttcggcgccg 240  
 gctgcttctg gggcgtggag ctgcggttcc agcgcgtgcc gggagtcacc cgcacggagg 300  
 tcggctacag ccagggcaac atccacgata cgacctacga ggacgtctgc accggcacca 360  
 cataccacaa cgaggtcgtc cgcgtgcagt acgaccggc cgctgcaag tacgacgacc 420  
 tactcgacac cttctgggcg c 441

<210> 12229  
 <211> 440  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-015-Q1-K1-C8  
 <400> 12229

caaacttctc aagactgtca ctgtccactc caccacctca cttgcgatgc gaacaagagc 60  
 aaagccctga aatccttctc ccctgcacg cacctgcaga cctgctctct cgcgcgcatc 120  
 tcccgtagcc ctactgttt agtggcgacg actgggcgac agtcgcccgc gccgcccgt 180  
 aggggcccgtg ccctgggtct ccatcttcgg gcgcttcgcc caccagatat gagcagctgg 240  
 caattcgatt ttgaggccat tatttgataa cccgggacaa gtgcactggt acctgacat 300  
 tttagcttgt tcagatggct acacagttgc catgcttcac acagctcagt ccaccgtctt 360

gtagttggat aaaagatgtc gggaactgca aggctacgcc tgatagggtg gccagaagtg 420  
cccagacttt gggccactgt 440

<210> 12230  
<211> 443  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-D1

<400> 12230

cccacgcgtc cggcttgaag tccaaggatg atgtccgtgg attagtttta gaggtagcgg 60  
gggaatatga ttctgaaggt agcatcactg atgatgatat tgatactgag gaacatgaag 120  
ataaaaactgt tcgtggagca gaaaatgggtg ctgctgatgg tgataatgct agtaatggag 180  
ctgaagttga aagccagagt tctttgccgg ataacaaagt tcgagtgtta tggcttgatg 240  
atagtgaaaa aacagaagac attgatgagg tagttgttgt tgatagaagt ttccttcatg 300  
gtgatttagt tgcctctgcc tcagatccaa ctggtcagat ggggcttgtt ttggatgtca 360  
atcttgtggt tgatttgcaa ggtgtgaatg gcgatatgat aaaggggtgtt tcttccaagg 420  
atctgagacg aatcaaggaa ttc 443

<210> 12231  
<211> 396  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-015-Q1-K1-D2

<400> 12231

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tcaatcaaag ccaggtcctt tgcagacagt ttttgaacta cctncagatg aggttggtga 120  
ccacagttat tcatgtgcac ttgagaggtc atttctgtat catggacgca tgtatgtctc 180  
ttcatggcat atttgctttc attcaaagt cttctcaaag caaatcaagg ttgtgattcc 240  
tttgagagat attgacgaga taaggagaag tcagcatgca gttattaatc cagctattac 300  
aatatttctt cgaatgggag ctggaggatt tgggtgttct ccattaggat gtccagatgg 360  
aagagtcagg tacatgtttg catcattttg gacaga 396

<210> 12232  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-015-Q1-K1-D4  
  
 <400> 12232

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gtcactcaac acagcacagg cagctcgaga gagagagaga gagaaagatg tcgtggtggg    60
ggcaccacca ccacaaccag ccgggtcccc cggcgtcggg cccaaccag gtgttcaaga   120
tcttctgccg cgccaacgag aactactgcc tggcgcgtcg cgacggcgcc gtcgtgctgg   180
ccccggtcaa cccaaggac gaccaccagc actggtacaa ggacatgcgc ttcagcacc    240
gggtcaagga cgaggaaggc atgccggcgt tcgcgctcgt caacaaggcc acggggctcg   300
caatcaagca ctccctcggc cagtcccacc cgggtcaagct cgcgccttcc agcccgacc   360
aggaggacgc gtcggtgctg tggacggaga gcaaggacgt gggcaagggc ttccgctgca   420
tccgcatggt caacaacacc c                                     441
  
```

<210> 12233  
 <211> 289  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-015-Q1-K1-D5  
  
 <400> 12233

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cccacgcgtc cgatgatgcc gagcatgatg tcaccaatgg tcttgccgag catgatggg    60
caaatgatga tgccacaatg tctctgcgac gccgtctcgc agattatgct gcaacagcag   120
ttaccattca tgttcaaccc aatggccatg acgattccac ccatgttctt acagcaaccc   180
tttggttggt ctgcattcta gatagaaata tttgtgttgt accgaataat gagttgacat   240
gccatcgcgt gtgactcatt attaacaata aaacaagttt cctcttatt                289
  
```

<210> 12234  
 <211> 427  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations

<223> Clone ID: LIB3059-015-Q1-K1-D6

<400> 12234

cccacgcgtc cgcccacgcg tccgcaatta gtaaacaacc taaagctcgc atgactggtc 60  
atcagaagct tgtaaaccat gtttactttt cccctgatgg acaatggttg gcaagtgcac 120  
cctttgataa atctgtcaag ttgtggaatg gtatcacagg taaatttggt gcagcattca 180  
gagggcacgt tgcagatgtc taccagatca gctgggtctgc cgacagtagg cttctactaa 240  
gtggaagcaa ggattccact ctaaagatct gggatattcg aacacacaag ttgaaaatgg 300  
acttgccggg ccacgcggat gaggtgtaca ccgtggattg gagccctgac ggtgaaaagg 360  
tggcgtctgg tggcaaggat cgggtcctca agctatggat gaactgatng attattatat 420  
atctatg 427

<210> 12235

<211> 96

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-D8

<400> 12235

cccacgcgtc cgcccacgcg tccgcaaagg atgtttgttt ttaactagtc gtgcgcacgt 60  
gattaattca gttcatgttg ttatggttgt cttccc 96

<210> 12236

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-C5

<400> 12236

cagcaagcca gagatgggtg acgcgcgttg atgtcctgct cgcgagtaga gctggacggc 60  
ggatcacatc ggtgatttcg tcaccccgcg tccaccatct ctggcttgct gtccctcatcc 120  
cgtcatatac atccttagct cgataattac attgtagcat ttaaccgaac acatgtacct 180  
atcaccattg cataagataa ggctcctcct taccgaaata ggaaatgac attttcacac 240  
aacgtgattt tcccatgtga agtgaatgta tccataaata gatgggctta cagagtgtta 300

agtggacgct tctcatgaag cggacatgga taccgaagct gacatgacac tatatcgcat 360  
aaagtttact tgtgactttc atgttttagc atgtttatac tactgacata ctttctacta 420  
ctccatttct atacta 436

<210> 12237  
<211> 440  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-B1

<400> 12237

cccacgcgtc cggccacgcg tccggccacg cgttcggaaa aacagattgt aaatgacagg 60  
ggcgtatatt ctttagaatg aactgggcct aaaggtgaat ttattccgat gaccaaacta 120  
aaccaaaata tcaaggatat gaaatctatc ctttacggca atgggtgaatc agagcctgta 180  
actgaagcat gtgtacaatt gacccaagaa ttcttcaggg agaacacttt acggctatta 240  
atcatacatc ttccaaaact aaatttggag gtatgtaatt tgacctgttt ttgcatgtag 300  
attgacagta ctactggagt agcttttatt acatacataa tacatacccc tcttggtatc 360  
gttttttacac aaaaaaactg atacattcgt atggatgtat ctctacttct gattgttgca 420  
gactaggaaa gatgctactc 440

<210> 12238  
<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-B10

<400> 12238

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tcaagatctg cggtgacatc catggtcaat acagtgatct tctaaggctt tttgaatatg 120  
gaggctttcc tctgaagcc aattatctat tcttaggtga ttatgttgat cgaggcaaac 180  
aaagtttgga gactatatgc cttcttcttg cttacaaaat caagtaccct gagaactttt 240  
ttcttctgag gggcaatcat gaatgcgcct caataaacag aatatatgga ttctatgatg 300  
aatgcaagcg tcgatttaat gtgcggctat ggaaggtctt cacagaatgt ttttaacactc 360

tacctgtggc tgctcttata gatgataaaa tattatgtat gcacgggtgga ctctctcctg 420  
atctagcaca cttggatgag at 442

<210> 12239  
<211> 395  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-015-Q1-K1-B11

<400> 12239

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ttcatctgcg gcgggtagcc gccctgcgga ggcggcggtg cgtaaggcct gtaagacgcc 120  
atcgcgcggc ggctaggggtt cctcggaacc cgagccccag cacacagaca ccgcgcgggc 180  
ggacactgct cgctccccct tctcctccgt cgccgccacc gcagaagcct ctaccactgc 240  
acgtncgagg ccaccgacac atattctacc aaatctatgg gagcgcgagg tagtcggcgt 300  
ctcggcgatt tggcgaggag ctggaaggaa ggaaggaagg ggcgatgaga atttcacgac 360  
agcttgtgaa tcctcgccct agatgccgac gggca 395

<210> 12240  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-B12

<400> 12240

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agttgcatgt tcacatagcc tcgtacaaca acttccccac tgctgctggt ttggcctctt 120  
cggctgctgg ccttgccctgt ttcgttttca cccttggaag gctgatgaat gtgaaagaag 180  
attatggaga actttcttca atagcaaggc agggatctgg gagtgcattgc cgcagtatat 240  
atggtgggtt tgtgaaatgg tgcattggag aaaaagatga tggaagtgc agtattgccg 300  
tgcagcttgc tgacgaaaca cactggaatg atcttgtaat tattattgca gtggtcagtt 360  
caaagcagaa ggaaaccagt agcaccagtg ggatgcgaga taatgttgaa acaagtcctc 420  
tcttgcaagta cagggc 436



<210> 12241  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-015-Q1-K1-B3

<400> 12241

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taagggcgctc gtcgtctagc agcagccacc gccgcctcat cctcgcagcc gccgtcctgc  120
tctccgtgct cgcggtgcc agcgccagcg ccgggacctc ctgctgccc gggtgggcca  180
tcccgcacaa cccgtccccg agctgccgct ggtacgtgac cagccggacc tgcggcatcg  240
ggccgcgcct cccgtggccg gagctgaaga ggagatgctg ccgggagctg gcggacatcc  300
cggcgtactg ccggtgcacg gcgctgagca tctcatgga cggcgcgac ccgccgggcc  360
cggacgcgca gctggagggc cgcctagagg acctgccggg ctgccgcgg gaggtgcaga  420
ggggattcgc cgccaccctc gtca                                           444
```

<210> 12242  
 <211> 441  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-B5

<400> 12242

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ctctccgctt cccgctccga tcgacctgct cctccccac caccgagccc atggcggagc   60
agctcaccca cgaccagatc gccgagttca aggaggcctt cagcctcttc gacaaggacg  120
gggatgggtg catcacgacc aaggagctgg gcactgtcat gcgctcgctg gggcaaaatc  180
ctacagaggc tgagctccag gacatgatca acgaggtcga tgctgatggc aacggcacca  240
tcgatttccc agagtttctc aaccttatgg ctgcgaagat gaaggacacc gactctgagg  300
aagagctcaa ggaggccttc cgtgtgtttg acaaggacca gaacggcttc atctcggccg  360
ccgagctccg ccatgtcatg acaaattctg gtgagaagct aactgatgag gaggtggacg  420
agatgatccg tgaggctgat g                                           441
```

<210> 12243  
 <211> 424  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-B6

<400> 12243

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ctttgttgtg gcaatcctct tagtgctgat ataatcttct aaaaaaaaaa aaaagaaaga 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaagg gataacacat taaagattac 180
aaacttacat aagctaacct aaaaaacatg atttaactgt aaatgaaact caaaacaata 240
tcaccatcaa tataacaaaa aaactgagat ttacaaaacg cacagataaa tcacactgaa 300
tgtcaaaaag aactaatcct attatttcac attatacaca ataacaaaaa cgcttacata 360
tatcccgaca aaaaaaattg ctaaattaca aatggaaatt acaatctatc ttatcactaa 420
at tt 424
```

<210> 12244  
 <211> 412  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-C4

<400> 12244

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agcaacatcc ccagttttcg cagccaccac ctccgaacat gcccactg cacgcacgag 60
ctcacatgct ttcacattca caaggatctc ggcctactct tccgcagctt ccaccaatgg 120
gtggaccatc agtgccatca caagtgaacc caccgcttcc gcctatgcct cacccaacgg 180
caatgcatgg ttcacagagt cagatgatgc cccaaatgcc acagcacatg atgggcctaa 240
atcagatgca tgctggttct gtgcctactg gtactgtacc cccaatgggt gggttcccaa 300
gtgggatggg aaacatccaa ggagcatcag gttcgtctgg cgtacaaaat tttcctatgg 360
gtggcatgta taatcggcct cagggacaaa tgggtccaca agggccaatg ac 412
```

<210> 12245  
 <211> 441  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-A6

<400> 12245

```

cggcgccggc cacgtgcgcg ccgtcgtcca agctgccga cggcgccggc tccggcggag 60
tgccgggggt agcgccctgc tgcagcaggc agcagtcgat gacggcgag gtggcgcgca 120
cgcagaaggt agcggacaag gtcgcgctga gcctgccgag cgacggcagg tacacgtcgg 180
gcgacagcgt cggcgtgacc atcttcagcg gagggccgct gttattggta ccgacagacc 240
gcagagactt caccacgatg ctggccggga cggcgccgct ccacgccgga gccggagccg 300
gtgcccacgg gtactacgat tactacatcg gcattgacgt ggagcatgca caagttggcg 360
gccccggcgg ggcgtcgtc gggcgctgc actacacggg ccattacacg gcgctacagc 420
ccgacgtgta cgcgtcgttc g 441

```

<210> 12246

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-H11

<400> 12246

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cttcggcggc gacgagcacc caccagcagt tctgtagaaa tggctgatgg tgaggacatc 60
cagcctcttg tctgcgacaa tggcaccgga atgggtcaagg ctggttttgc tggggacgat 120
gcaccaaggg cggttttccc tagcattgtt ggccgtcctc gccacactgg tgtcatggta 180
gggatgggac agaaggatgc atatgttggc gatgaggcac agtccaagag aggtattctc 240
acgctcaagt acccgattga gcacggtatt gtgagcaact gggatgacat ggagaaaatc 300
tggcatcata ctttctacaa cgagcttcgt gttgcaccag aggagcacc tgtgttgctc 360
actgaggctc ctttgaaccc aaaggccaac agggagaaga tgacccaaat tatgtttgag 420
actttcaatg t 431

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<210> 12247

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-H2

<400> 12247

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taaaggccga ggattaaaag aaaaggaaaa ggaaaaagaa aaaaagattc aaaaaagaaa 120  
aaaccaaaaa gggaaaaagg aagaaagaag atacataaat aaaagggaaa aaaaaaagga 180  
aggcatgaaa aaaaagatga acaaagttaa agagaaaaga gagaaggaca agaaaaagga 240  
gaagaaaaaa gcaaaagagc agaaaaaaaa agaaggaaca aaaaaaagca aaaaaaaaaa 300  
aaaaaagaag gacaaaaaaaa aaaaaaaaaa aaaaaccaa gaccaaaaaa aaaaaccaa 360  
agagaaaaaa aggaagggaa taagggaagg agaacctt 398

<210> 12248

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-014-Q1-K1-H4

<400> 12248

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tgangcatca gtgcagcccg acggcgacgc cctactgtc gcctcagtgc cagtcgttgc 120  
ggcagcagtg ttgccagcag ctcaggcagg tggagccgca gcaccggtag caggcgatct 180  
tcggcttggt cctccagtcc atcctgcagc agcagccgca aagcggccag gtcgcggggc 240  
tgttggcggc gcagatagcg cagcaactga cggcgatgtg cggcctgcag cagccgactc 300  
catgccccta cgctgctgcc ggcggtgtcc cccactgaag aaactatgtg ctgtagtata 360  
gccgctggct agctagctag ttgagtcatt tagcggcgat gattgagtaa taatgtgtca 420  
cgc 423

<210> 12249

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-014-Q1-K1-H8

<400> 12249

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tggctctgat gcttttggga agccggagga cgcttagggc ngctttatcc cttntttttt 120

tatttttttt tttttttttt tttttttttt tttttttttt tttttttttt ttttattttt 180

tttttttttt tttttttttt ttttttttatt tttttttttt ttttattttt tttttttttt 240

ttttttttat tattttttat ttattatttt tttttttttt tttatatattt tttttttttt 300

ttttttattt tttatttttt ttttatttat tttttttatt gttttttttt tttttatttt 360

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tgtttttttt tttgtatttt tttttttttt t 451

<210> 12250

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-H9

<400> 12250

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cgtgagatcg cccaggactt caagaccgac ctccgcttcc agagctccgc cgtcgccgcg 120

ctgcaggagg cgtccgaggc ctacctcgtc gggctcttcg aggacaccaa cctctgcgcc 180

attcacgcca agcgcgtcac catcatgccc aaggacatcc agctcgcccg ccgtatccgt 240

ggggagaggg cctaggcgtc gtcccgggtg aggtggaagt agtagtggcc gtttctgtca 300

tactgtctg gctagaaggt gtagagatgt gccgggttct gtagtttggg ttatcgggtca 360

aatcatgatg tagttgggtc taccctgctg taatttaact atgactatgc aatggcaatg 420

<210> 12251

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-A1

<400> 12251

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tgcatacacat tgtcctccct atctccatga gtcacggcat cagcatgcct tgaaaagggc 120  
 caggggagct ggaggtcggt ttctcaattc gaagtcagat gacaaggaag agaactccga 180  
 ctcaagtcaa aaagagattc agaacggagt tgcgccccaa aaggggtggcc aaccgtcaac 240  
 ccctccgtct cccaacgggtg cgtcgtcagc ttatcaggcg cctagtcgtg aatgatgatt 300  
 cggaactcac aactgaagag attttagtcc ctgacgctag ttgtggcagc agctttgtac 360  
 agtaagtgt agcgggcagc agcgaatgg tgtcatagaa aaacgttgac gagtcagaca 420  
 ggttttggag tct 433

<210> 12252  
 <211> 243  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-A10

<400> 12252

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 aggacatggg ccttaataat caccttgaac tgccaaaggg aacgcctgtg tgggtgtgtg 120  
 caagcgtgct aaaggccact tagaaaagtc tcattagtat ctgagttgag ttccagttcc 180  
 actcttatgt tttcaacagt agacaatgtt cctgttcgtg agttgtctgt gtgattttct 240  
 tct 243

<210> 12253  
 <211> 268  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-A11

<400> 12253

aaaaaaaaaa aacagaaaaa aaaaaaaatt aaataaaaaa aaaaaaaaaa aaaaaaaaaa 60  
 gaaaggataa aaaaaaaggg gcggccgttt taaagatccc aatttaactt ccccttcctt 120  
 ccaacttaat acctttttta tagggccccc taatttaaatt tcattgcccg ttttttaaaa 180  
 acttcttaac tgaaaaaacc ttggctttcc caaattaaat ccctttgaaa aaaatccctt 240  
 tttccccagt tggcttaata ccaaaaag 268

<210> 12254  
 <211> 407  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-A12

<400> 12254

gcggaccgtg ggtggtgaac cctgcctcta ctacaacagc aacaactgat ttatgtaggc 60  
 ttcgctgtgg taatgcacct acatacctgc acaacagttg ctgcaacaga ttgtaccagc 120  
 tctgactcag ctagctgtgg caaacctgc tgcctacttg caacagctgc ttccattcaa 180  
 ccaactgact gtgtcgaact ctgctgcgta cctacaacag cgacaacagt tacttaatcc 240  
 actagcggtg gctaaccat tggtcgttgc ctccctacag caacaacaat tgctgccata 300  
 caaccagttc tctttgatga accctgcctt gttgtggcag caaccatcg ttggagggtc 360  
 catcttttag attacatatg aaatgtactc gataatggtg ccctcat 407

<210> 12255  
 <211> 446  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-015-Q1-K1-A2

<400> 12255

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 tgggtccggc gtcaagcgtc gcgggctcca ctgagcgtgc gtgtcaccgg cgggaggcaa 120  
 gggcaggcgg tgggtggcgat ggcgtccgct gacgcgcgct tggcggggat cgctnctcc 180  
 atccgcgtca tctccgactt cccaagcca gggatcatgt tccaggacat cagcagcttg 240  
 ctgctcgatc ccaaggcgtt ccgtgacacc atcgacctct ttgtcgagcg gtacaaggac 300  
 caagggatca ccgtggttgc tgggtgtgaa gctagagggt tcatttttgg tcctcctatc 360  
 gcttttagcca ttggcgcaaa atttgtgcct ttgaagaagc cgaagaagtt gccaaagcag 420  
 gtgatctncg aagagtattc tttgga 446

<210> 12256  
 <211> 441

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-015-Q1-K1-A3  
  
 <400> 12256  
  
 ctccggcataa ctgcgctgct cgtgatctac tggatgtaca agtacctgac gtgcaagggc 60  
 cagcctggcg ccaaccagct ggaccacgcc aatgcgaggc tgacgtccaa ggcccgcgac 120  
 atcgaggatg cagcacagca ccgcatcgac cagccgcagg ggtcttgaca gaagaaccac 180  
 actagatcgg accgctcgcg cgacctactt gtaccactgc cggagcggcg gcatatggcc 240  
 cttaaaggcg gtggctgctg ctacgtacgc tgccgtagag tctcggtcgc cgcgatagct 300  
 ctagctagtc gtttatgtgt tgtgctctgt gtgtgcatgc tcgtgtctgg tggcatgcag 360  
 tgcaccgcag tactatatgc tgtatgcgtc tatatttgat cggagaggct gatgtacagc 420  
 atgctcgata tgtctagttt g 441

<210> 12257  
 <211> 442  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-015-Q1-K1-A4  
  
 <400> 12257

atccccgcagc agccaaaacc tacctagccg ccgccgcagg cggcccccca tcgccgccga 60  
 gatgcagatc tttgtgaaga ctctgacggg gaagaccatc actttggagg tggagtcctc 120  
 ggacaccatt gacaatgtga aggccaagat ccaggacaag gagggcatcc ccccggacca 180  
 gcagcggctc atcttcgccg gcaagcagct cgaggacggt cgcaccctcg ccgactacaa 240  
 cattcagaag gagtccaccc tccacctggt gctccgcctc cgcggtggcg ccaagaagcg 300  
 taagaagaag acgtacacca agcccaagaa gatcaagcac aagcacaaga aggtgaagct 360  
 ctccgtgctg cagttctata aggtggacga cgccacaggc aaggtgaccc gnetncgcaa 420  
 ggagtgcccc aacacagagt gc 442

<210> 12258  
 <211> 346  
 <212> DNA



<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-F4

<400> 12258

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atctcgtttt gtgaatgtac catttgtaat tgctgatgca actacattaa cccatgcagg 180

ttatgtatta taggatttat aatctatatt atacaattta ctacttttt catattttta 240

tgtacaagca tttcatcatt ttatatTTTA catatactat ttttataata tcataatata 300

agtttgaata tttaacttta ttataaactt atctttttta tttttt 346

<210> 12259

<211> 291

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-014-Q1-K1-F5

<400> 12259

agcagctcag gcaggtggag ccgcagctcc ggtaccaggc gatcttcggc ttgntcgtcc 60

agtccatcct gcagcagcag ccgcaaagcg gccaggtcgc ggggctgttg gcggcgcaga 120

tagcgcagca actgacggcg atgtgcggcc tgcagcagcc gactccatgc ccctacgctg 180

ctgccggcgg tgtccccac tgaagaaact atgtgctgta gtatagccgc tggctagcta 240

gctagttgag tcatttagcg gcgatgattg agtaataatg tgtcacgcac c 291

<210> 12260

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-F6

<400> 12260

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cgagtcgctg gagaatgcct tcgcctccta cggcgagatc ctcgactcca aggtcatcac 120

cgaccgggag acggggaggc cccgcggctt cggcttcgtt accttctcct ccgagaactc 180

catgctcgac gctatcgaga acatgaacgg caaggagctc gacggccgta acatcacctg 240  
 taaccaggcc cagtcctgtg gcggtggcgg tggcggcggt ggctacggcg gcggtcgcgg 300  
 cggcggcgcc gggtatggtg gcgggcgccg tgacggcggt tatggcgccg gtggcgccga 360  
 cggcggtcgg cgcgaagggt gcggcgccgg ctacggaggg ggtggc 406

<210> 12261  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-F7

<400> 12261

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 tttcccacaa tgctcacaag ctccatagc ttcccttctt ccccatacc tctcaccagc 180  
 ggtgtcttca atgtgtgaaa acccaattgt tcaaccctac aggatccaac aggcaatcgc 240  
 aacaggcatc ttaccattat cacccttgtt cctccaacaa ccgtcagccc tattacagca 300  
 gttacctttg gtccatttgg tggcacaaaa catcaggga caacaactac aacaacttgt 360  
 gctagcaaac cttgctgcat actctcagca acatcagttt cttccattca accaactggc 420  
 t 421

<210> 12262  
 <211> 302  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-F8

<400> 12262

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 gaccggaagt aatcatcagg aaaggaaagg gttgaaccat gagcgccgtg gctgtttcgt 120  
 cgtcgcttaa cccggacgcg ccgctcttca taccgcggc gctgtttcac gtggaggact 180  
 tttctccgca gaggtgggac ctcatcacca ccaactgtctg ggtccgcgac cactgttccc 240  
 gcgagcgcgc ccacatgtac acgatagccc agcacatata cacgggcggg ctctccgacg 300

<210> 12263  
 <211> 272  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-G10

<400> 12263

gaggaggaag aagaagctga gtgtgataag acagttaggg aggttcgcga gagcgtgtag 60  
 ctggatatga cctcactgca catctaaatg ctgcctgtga ggctgtgacg tgtctgtaga 120  
 taattggctt tattgtctgc tgaatttggc agaacttatg caattctggc gtcagatata 180  
 gtggctctata taagcctttt ccatcctgta atatatttgt tttgttgaac tgtatgtgtg 240  
 gtactccgta tatgggtttg ttctaaggga gc 272

<210> 12264  
 <211> 399  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-G11

<400> 12264

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 ttgttcgctc tcttagctct ttgtgcaagc gccactagtg cgacgcatat tccagggcac 120  
 ttgccaccag tcatgccatt gggtagcatg aacccatgca tgcagtactg catgatgcaa 180  
 caggggcttg ccagcttgat ggcgtgtccg tccctgatgc tgcagcaact gttggcctta 240  
 ccgcttcaga cgatgccagt gatgatgcca cagatgatga cgcctaacat gatgtcacca 300  
 ttgatgatgc cgagcatgat gtcaccaatg gtcttgccga gcatgatgtc gcaaatgatg 360  
 atgccacaat gtcactgcga cgccgtctcg cagattatg 399

<210> 12265  
 <211> 417  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-G12

<400> 12265

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gagcaggggc aggcggcgct cgagggcgcc actgaagaca tggacctcat gggccggctc 120  
ctcgatgagc tcgacctgct gcagcgcgcg tcccaggacg tggacctcga catggtggac 180  
gtcaaggtgc agaagctcat gccagagctc gggttcatgc ctgaggacgc cgaccgcctc 240  
gtcgctcctt tcagcgggtg gtggaaaatg aggatgtctc taggcaagat acttcttcag 300  
gacctgatt tgcttttgct tgatgagcct acgaaccatg tcgatttaga taccattgag 360  
tggctggaga tgtatctcaa gacgcaggat gtgccgatgg tcattatc tcatgac 417

<210> 12266

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-014-Q1-K1-G4

<400> 12266

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agaggttcca tggagtnccc tgggacccta cggagaggat cgtgcgcggt ctccagccat 120  
tcatggagac gagaggggtg cccaagggcc ttgttctcgg gagctgcacc gtccttgagg 180  
ccgccgggca gggcgcgctt ggcccgtgt atgaactgct ggagtcgacc gtctccggcc 240  
gggaacgtca ggagcgagta attctgctcc attttggcgc caacagtggg tcacataggt 300  
ttgctcttga gaatcaagct gttaatgaag ctactttccg ttgccctgat gagctaggat 360  
ggaaaccaca gaggacacct atcatatctt cagatggaag catcttacac tcaagacata 420  
cttcac 426

<210> 12267

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-G5

<400> 12267

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 gaatcatcta taagctgtcg gatatcatgt atctcttaca aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaacaaa aaaaacaaaa acaccaaaca aaaaaaaaaac 180  
 aaaaatacaa cataacaaat catatataga tccaccatga cgcaaaccgc ccgcctccct 240  
 acaacaacgt ccgcatctaa aacaaccctg tcgctacceca acataccctt acagcacaac 300  
 accctgggtt caccagatga tgtaacaacc aatagtcccg cacataccga tcttacc 357

<210> 12268

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-G6

<400> 12268

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 agatggcggc gtcggacgtt gagtaccgtt gcttcgttgg cggcctcgcc tgggccaccg 120  
 acgaccactc cctcaacaac gccttcagca cctacggcga ggtcctcgag tcgaagatca 180  
 tcctggatcg ggagacgcag aggtcccgcg gcttcggctt cgtcaccttc tccacggagg 240  
 acgcgatgcy cagcgccatc gagggcatga acggcaagga gctcgacggc cgcaacatca 300  
 ccgttaacga ggcccagtc cgcggcgggc gtggaggcgg cgggtggcgga tacggtggcg 360  
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<210> 12269

<211> 371

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-014-Q1-K1-G7

<400> 12269

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 tgaagtgaga agatccacga gaaactgcgg cagtttcaca aattttgcta cgcatcattt 120  
 tccttgggca atgctgtttc gtaggcatag gggcatgtta agtggattca tctctgtcgc 180  
 tatcatactt tcgaactgag tttcagaagg aaaaaaactg tggactgttg ccatctggga 240

taattcctgg gctgcagcat tcgccatcct tctcccgggt ccttcagggt cattttgaca 300  
 ttcttgtgat accctcagaa ccttttgaac tgatgaaatg gttaaggtgg agtaaaaaaa 360  
 annnaannna a 371

<210> 12270  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-G8

<400> 12270

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 attgattgct gcatgctgct tccatgcata ccaacagggtg tcatacatga tcctcgccag 180  
 ggtatcccca gtcacacatt cagtgggcaa ttgctgcaag cgtgtggtgg tcattgtgac 240  
 ctcggttctg ttcttcagga cccctgttct tcccatcaac tctactcggt cccgggatcgc 300  
 tcttgcctgga gttttcctat actcgcaatt gaagaggctt aagcccaagc ccaaggctgc 360  
 ttgatcatag acctttgcag gtccatccaa tagaactttt gaagttatgc tatgccatt 419

<210> 12271  
 <211> 123  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-G9

<400> 12271

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 gttcaataat aaagtgtttt atctgatgtt tgtggcttcc cagaaataag aaattacatt 120  
 tct 123

<210> 12272  
 <211> 389  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-H1

<400> 12272

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ggagcaacaa tagagcaaca atggcgacca agatattttc cctccttatg ctccttgctc 120

tttctacatg tggtgctaac gcgacaattt tccctcaatg ctcacaagct cctatagctt 180

cccttattgc ccatacctt ccatcaatta tagcttcaat atgtgaaaac ccagctcttc 240

aaccatatag gtttcaacaa gcaatcgag catgcaacat acctttatcg cccttggtgt 300

ttcaacaatc gccagcccta tctttggtgc agtcattggt acaaaccatc atggcacaac 360

agctgcagca actcgtgcta cctctgatc 389

<210> 12273

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-D6

<400> 12273

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cgctcgctcc tgctcccagc agctggtcaa ggcggccgta ctggcaggcg cgctgctgat 120

gctggcggcg ggggcccggaa cggcttcagc tgccgagagc tgcattgccag gtgaccactt 180

ctgacgagac gtgccttaga tacgcaatac acagaacggc attctccaac atgacgagct 240

gcacctgggt gcgctagatt aacagacgtg cgtc 274

<210> 12274

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-D8

<400> 12274

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ttcggcaacg gcaatgccaa ggtgcagttc accaaggagc cgaacaacct ctacaacatc 180

cactccttca aacactcggg tttggcgaac aagaagactg tgacgatcca gccagctgca 240

aaggactcgg ctgtggctct ctctactacc aagaccaaga agcagaacgc acctgcgaag 300  
 ctcagccaca agtctgtgat ggcgaaggag ttccgcaaga tggccaaggc tgtgaaaaac 360  
 caggtttagtg acaactacta caggcctgat ctgaccaagc cagctcttgc taggct 416

<210> 12275

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-E1

<400> 12275

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 gatgctcctt gctctttcta catgtgttgc taacgcgaca attttccctc aatgctcaca 120  
 agctcctata gcttcccttc tttccccata ccttccatca attatagctt caatatgtga 180  
 aaaccagct cttcaaccat ataggettca acaagcaatc gcagcaagca acataccttt 240  
 atcgcccttg ttgtttcaac aatcgccagc cctatctttg gtgcagtcac tgggtacaaac 300  
 catcagggca caacagctgc agcaactcgt gctacctctg atcaaccaag tagctctggc 360  
 aaacctttct cctactctc agcaacaaca atttcttcca ttcaaccaac tgtctacact 420  
 gaa 423

<210> 12276

<211> 183

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-E11

<400> 12276

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 tcatccaatg atactattat aacttctgta aacatcccca cctcactctc catcaactca 120  
 acaaatacat ctactattcc aactactca ctccccacca ataactat accacatatc 180  
 ctc 183

<210> 12277

<211> 425



<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-014-Q1-K1-E12  
  
 <400> 12277  
  
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 acaagttctt agccgagaca tatatagact cggacaactt tttgactttt tcaggatggt 120  
 atctttctac gtgacaactg ttggattcta cttctgtact atgctaaccg tgctgaccgt 180  
 gtacatattt ctctatggga aaatgtatct ggccttatct ggtgttggag aatcaattca 240  
 aaatagagcg gatatactgc ataacgccac cttgaatgct gctctgaaca ctcaatttct 300  
 tttgcacatt ggtgtattta ctgctgttcc catgattctt ggtttcatcc ttgaatcagg 360  
 tgttttaacg gcttttgctc agtttattac aatgcagttc caaatgtgct ctgtattttt 420  
 cactt 425

<210> 12278  
 <211> 378  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-014-Q1-K1-E2  
  
 <400> 12278

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 ggancctacc tncgacataa ggctgggcag cctcagcata ccgaaaggca acgggatcgc 120  
 catacccgtc ccgttcctcc accgagacag agaggtctgg ggcgacaacg ccaatgactt 180  
 cgatccggtg aggtttcaga acgggggtcac gaacgcggcc aagaccccg caggctcttct 240  
 gtcgttctcg atcgggccga gggcatgcat cggccagaac ttcgcgatgc tggaagcgaa 300  
 gtcggtgatg gccatgatca tgaagaagtt ctcttcacg ctttccttga gctacgtgca 360  
 cgctcctgag gatcatat 378

<210> 12279  
 <211> 352  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-E3

<400> 12279

cggacgcgtg ggcggacgcg tgggaccaac tggcatcatt gaactctect gcttattgac 60  
ggcagcaaca actactacca ttcagccagc tagctgggtg gagccctgct gccttcttga 120  
cacaacaaca gttattgccg ttctacctgc acgctgcgcc taacgctggc accctcttac 180  
aactgcaaca attgctgcc a ttcaaccaac ttgctttgac aaaccagca gcgttctacc 240  
aacaacccat cattgggtggg gccctctttt agatttctta tgagttatag ttcaataata 300  
aagttttttg tctgatgttt gtggcttccc agaaataata aagtccattt ct 352

<210> 12280

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-E6

<400> 12280

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ccggttaatc cgaacataga agctgtcaaa tggttcttca aggaacggct tgatgttaat 120  
ccaaaagagg agagcaggac attcttgaca tttgtcatcc ctcatcacia agaaccactt 180  
ctgacgagat tctttggaga gttgcaagac aggggaaggg agtttggat atcagacatt 240  
caactcggtc tgacaacact tgaagagggtg ttcttgaaca ttgcaaagca ggcagagctg 300  
gagacctcta ctgctgaagg taccctgggtg actctcaacc tgtcatcagg aacaacaatt 360  
cagattccca aggaggctcg tttcgttggg attcctggaa ctg 403

<210> 12281

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-F1

<400> 12281

accgcactct acaccgtaac acctctcatc taaccaccgc agccctacta acaaagaaag 60  
acgcttatca cgatgtccag tgcacctata ctcgttcaac accacctttt ccaacaacat 120

ttgcaccatc acaatacacc tattatcact tatccttaag agctactcac ttcacactac 180  
 tttcaccacc cactttccat aatcaactga ctgtttctaa ctctactgca tacctacaac 240  
 atcgaccaca aacacttaat ccaact 265

<210> 12282  
 <211> 516  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-014-Q1-K1-F10

<400> 12282

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 tgggggtcttg agntagtatt nnntccaatt gcattttatta ttttatttaa atgtccacac 120  
 tcctaagtga tctgctgttt atttnnngtc aattaagggt cacttagtca annngcttgca 180  
 gccnnttaaa gggaccctcg atgcaagggt ttanngggag atnccgaagn nctatttggn 240  
 natcttgtaa ttgatcggga agcttcccat ctgaatcatc gaaatttntg tactcatttt 300  
 gcaggatgtg nctttaatct ccttccaaat tntgaactgt aaatgagccc taattaaagc 360  
 cttttgcagt gaaaacataa cgaccatgat gtttggtgaa tataacctgt ctttctctga 420  
 tcccggaagc gtcatttgcg ccttctnaca atttaatcan acaattaaga tgcttaaaca 480  
 aaggagcatc gagaaaggcc gaggggatcc gaaacc 516

<210> 12283  
 <211> 204  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-F12

<400> 12283

tccaatccca atccatctcc gggcattccg gcgcgtttag ttcattaggt cttctttctc 60  
 atcgggggct agtgttatct tacctttctt cttttctgtc tattgggttaa ttgggtcccc 120  
 ctgaatgttt ttttgtttgt atagagagag aaagagaaaa gaagggttaga agagaagcaa 180  
 gagaaataga tgaatcaaag tggt 204

<210> 12284  
 <211> 405  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-014-Q1-K1-D3  
  
 <400> 12284  
  
 ggcgaagttg ttgtagttgt tgtgctatca aaccttgctg cctactctca gcaacancgg 60  
 tttcttccat tcaaccaagt agctgcattg aactctgctg cttatttgca acaacaacta 120  
 ccattcagcc agctagctgc tgcctacccc caacaatttc ttccattcaa ccaactggca 180  
 tcattgaact ctctgctta ttacagcag caacaactac taccattcag ccagctagct 240  
 ggtgtgagcc ctgctgcctt cttgacacaa caacagttat tgccgttcta cctgcaagct 300  
 ggcgctaacg ctggcaccct cttacaactg caacaattgc tgccattcaa ccaacttgct 360  
 ttgacaaacc cagcagcggt ctaccaacaa cccatcattg gtggt 405

<210> 12285  
 <211> 399  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-014-Q1-K1-B7  
  
 <400> 12285  
  
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 aagcttctga caacagagca cagcacacaa caatacaata cactggagtt ctttaaggtaa 120  
 ccattacaat caggcagcta atcgttggtg cagtttcaac acatatatag ttccgcatac 180  
 cgcaggaaac tatatgcatg catcgacatt atttgggggg catcggaccg gagcatctca 240  
 tatccatcca gaccgaccgt gctcgtcagg gtccgccatg tcctcgttca gctgggtccat 300  
 gtaggcctgc tgatggtacc gtgtctgcag ggaaggatca ttgccatggt gctgaaggag 360  
 tccctggaac ggaccaagaa cactactccc actgtgccc 399

<210> 12286  
 <211> 338  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-014-Q1-K1-B8

<400> 12286

gaatggccga gataacccta gagccgagtg atcttatggc gcaaacaaac aaaaaagtan 60  
 tgccaaagtt cactgaaatc ttccccgtgg aggacgcgaa ctacccttac agcgccttca 120  
 tcgcgtcggg ccggaagac gtgatcaaac actgcaccga ccataaaggg atcttccagc 180  
 ccgtgctgcc accggagaag aagggtcccg agctatgggt ctacacagag ctcaaaacta 240  
 ggaccagctc catcacgctc gccatacgca tggacaacct gtacctcgtg ggcttcagga 300  
 ccccgggcgg agtgtggtgg cagctcaatg gcgactgg 338

<210> 12287  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-C1

<400> 12287

atgttcatac ctttcgggct tctttgtctc caaacttcaa atcatattgc agaaatcgtc 60  
 tgaccgctat gatgttgact gtgtgcctga tgcttacaga ggaaataggc aagcttatat 120  
 taaggacagc tcgatttcta agaactgtac tctggaagcg aagggttctgg aatacatgag 180  
 agcaccaatt tatgtttatt atgaacttga gaatttctat cagaatcacc gcaggtatgt 240  
 caaaagtaga agcgataaac agctgcgttt tggggcaaaa tacacggccg actcgtgcag 300  
 tcctgttgag tgggataata atggttcccc aattgttccc tgcggcttga ttgcctggag 360  
 cttattcaat gatacatatg gttttactcg tgggtccaag gaaataaagg tcaaca 416

<210> 12288  
 <211> 384  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-014-Q1-K1-C12

<400> 12288

cccacgccta ctcgtacgcg tgtagtcaag atcctctaca gctagatctg ccacaccagg 60

atgtactttct gggatgccaa agggcatact cccgtgtacc ctcagatctt tggccaccaa 120  
gctaaacgta ttataaacag tggttagat ggtgatactg acctaacgta caacgaccat 180  
gtcctacctg tggttactgt gcagtgcatt gagacgatac aactgcaag ctggctatat 240  
atcaacatgt gtgcaccgct gangatcaac accgactcgt actgagatga tcgccgatag 300  
caatacccag gttctaaatc aactacaagc ctatatacca ctttggaac acttacacct 360  
tgatcgagta caccgacatg cata 384

<210> 12289  
<211> 259  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-014-Q1-K1-C3

<400> 12289  
gggtgggttgg cttctcctcc cctcctttt cgggttcggg ttcgtgaggt tctccgnagt 60  
tacttttcaa aaatgagcgg atcgagatag catcatacaa tggtgagtac cgctgcttct 120  
tcagcagcct cgctgtgcc acagactacc actcacttca caactccttc agcacctaca 180  
gcaaggctct ctagtccaaa atcattctag atcggcaaac aaaaaatcc cacgtcttct 240  
acttctttac cttcttcac 259

<210> 12290  
<211> 312  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-014-Q1-K1-C4

<400> 12290  
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tagttcatct tcaaagggat cgacgcccgg ttcctgagcg aagccctggg cgtcagcatg 120  
cacgtcgccg agaagctgca gagccggcgt gaccagcgag gcgagatcgt ccgcgtggag 180  
ccggagcacg gctttcacca gctgaatccg tcgccgtcgt cgtcgtcgtt ttcgttccca 240  
tcgtcacaag tccagtacca aacttgccag ctcgacgtcg acaggcacia cttctgcgcc 300

atggaggtga tg

312

<210> 12291

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-014-Q1-K1-C5

<400> 12291

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ccagctacga ggacttcaca aacagcctcc ccgagaatga ctgccgatac gcgatctatg 120

atttcgactt tgtcactgca gaagatgtcc agaagagcag gatcttctat atcctatggt 180

ccccatcctc cgccaagggtg aagagcaaga tgctttatgc aagctcaaac caaaaattca 240

agagtgggct caatggcatt cagggtggaac tgcaggctac tgatgcaagt gaaatcagcc 300

ttgatgagat caaggatcgg gctcgctagg catcatgatc atgcatcatg gactcggcct 360

actactgtgg atttgtatgc cattatagac tnggtgctgt gaaagactgc ttgatgattt 420

<210> 12292

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-C6

<400> 12292

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcgga cgcgtggggg cgtgcagatt 60

atggcaccta atgctggtga gatcatccac gaagctgtcg tcgccttgca gtatggagca 120

tccagtgagg acgttgctcg aacatgccac gcacacccta ccgtgagtga agccctcaag 180

gaggcttgct tgcaaacctt cgataaagca atccacatat aattttctcat tttttgtgtc 240

caaactccaa agtttgtggt aattttgggt ctgttgga aaaggcccct gattgtcatt 300

ttgtttttgt cggccatact gtgaattgac cctttgagtt gtccatctta gcgggggttt 360

gtgcttgctt ggcttggttt atccatccaa ataataacct gatactat 408

<210> 12293

<211> 411

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-014-Q1-K1-C8  
  
 <400> 12293  
  
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 aatgggttttg atggtacaga tacacattac tttcacagtg gtccacgtgg ccatcactgg 120  
 atgtgggatt ctgcctatt taactatggg aactgggaag ttttaagatt tcttctctcc 180  
 aatgctagat ggtggctcga ggaatataag tttgatgggt tccgttttga tgggtgtgacc 240  
 tccatgatgt acactcatca cggattacaa gtaacattta cggggaactt caatgagtat 300  
 tttggctttg ccaccgatgt agatgcagtg gtttacttga tgctggtaaa tgatctaatt 360  
 catggacttt atcctgaggc tgtaaccatt ggtgaagatg ttagtggaat g 411

<210> 12294  
 <211> 83  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-014-Q1-K1-C9  
  
 <400> 12294  
  
 cccacgcgtc cgcccacgcg tccgcccacg cgtccgcca cgcgctccggg aacagtggaa 60  
 aatttatgca agcatttctg etc 83

<210> 12295  
 <211> 410  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-014-Q1-K1-D1  
  
 <400> 12295  
  
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 tgatgatgcc ccatttatag atggaaacca agcagagggt ggtgcactgt gggatatttt 120  
 tcgacgggaa gatgtgagca aactgcatga ttatctaata aagcatgctg atgagtttag 180  
 acattgcaac tttgagccag tgaagcaggt tactcatcct atacatgatc agtggttttta 240



tctaacaatt gagcacaaga gaaagcttaa ggaagaatat ggagtcgagc cttggacatt 300  
tgaacagaag ctaggtgagg cagtatttat cccggcagga tgtccccacc aggttagaaa 360  
tttgaagtct tgcataaagg ttgcactaga ttttgtttct ccggaaaatg 410

<210> 12296  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-D11

<400> 12296

caattgcca attacaaca caatccttgg cacatctaac catacaaacc atcgggacgc 60  
aacagcaaca acaatttcta ccagcactaa gccaaactagc tgtggtgaac cctgtgcgct 120  
acttgcaaca gcagttgctt gcatccaacc cacttgctct ggcaaacata gttgcatacc 180  
aacaacaaca acaattgcaa cagtttctac cagcgctcag tcaactagcc atggtgaacc 240  
ctgccgccta cctacaacag caacaactga tttcatctag ccctctcgtc gtgggtaatg 300  
cacctacata cctgcaaca cagttgctgc aacagattgt accagctctg actcagctag 360  
ctgtggcaaa ccctgctgcc tacttgcaac agct 394

<210> 12297  
<211> 272  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-D12

<400> 12297

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ttcctcttcg gaccacctcc aaggctcttg gtgtagcttg ccactctcac caatcaagtt 120  
ttcatgtctg atctcgacat tcagatccca actgccttcg atcccttcgc tgaggccaat 180  
gctggggact ctggtgcggc agcagggcca aaggactacg tacacgtgcg catccagcag 240  
cgtaatggtc gcaagagcct gaccaccgtc ca 272

<210> 12298  
<211> 417  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-B5

<400> 12298

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gtgagtcctt tagttgatga gcttgttctg ctgctgcttt attgtgcata tacagtgggt 120  
ctctacctgc acctcgctgt gtcggttgtg catgaaatca aggatgccct tggaatctat 180  
tgcttcagga taactagaaa ggaggcttga actttgtagt gaagatatat tattattact 240  
tcacaagtgc tagcgaggag caacacagtt cgtcacctg cagctggga gtgtgtgtgc 300  
ccctggaaat gccacagcca tctgattgta ttgcgcagtt atcttggta tataacaata 360  
tagcagtgtg atgtacactg tagtagggc gttagaagat atactgtgat aaacttg 417

<210> 12299

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-013-Q1-K1-H6

<400> 12299

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atatctcaag gttgatgatt taaaatgtat tcttcacaac atggggaagt ttttatcaaa 180  
caaggacctg aaagacttgg ttcaaattgc tcttgttgag agcaattctg caagggacaa 240  
tcgcataatc taccctaagc ttgtgaagat tgttgacctg taatctggca ctgcttggcc 300  
cgcgtcagtc cccttgaagt taaccatgct atgatcggtg agaagtcaat tatgagaaac 360  
tanttttgtt acttattaat gggttcactg ccatttttgt ggctaccctg ttctacgatt 420  
atgctaca 428

<210> 12300

<211> 160

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-H7

<400> 12300

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atctactaca ccataataaa ttctttttata tctcttaaaa attattttatc tcatatctta 120  
tacttttttac ttaccttttat ataattaatt taattttattc 160

<210> 12301

<211> 223

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-H8

<400> 12301

gccgggtgcg atgcatctcg gactttctga gtgggtgtttg cgtcagacag ccagccgctg 60  
tggggctagt gttccaacat ttgtcagcct gcttgcgcgga ggaagggggg tcaactgactc 120  
aagagaaggg cctggtcata ggctgctgca ttatgaattt ctgatgatgt cttatgtctg 180  
tactctgaat caactatgta tgagatctca tctcctttct cct 223

<210> 12302

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-H9

<400> 12302

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gagaattagg tggagaagaa ggttaagttc aacgctcctt aggtgttcga tggtagccta 120  
gttgaaaatc gtgcgaagcg aagggtgtgg atcaaaaacaa ctcacaagac gatgtcggcc 180  
gatgatcctg aagctagatg aactaagcgg gtgtcagaat aaaagttgat cgtcaagtgg 240  
ccatcatcta acaacactaa catagtgtta tcccagggtta taattttggt ctgttgtgga 300  
tgggtgctaag tgccggtggg ctccggccttc ttatataaac tgcgatccat ttccgagctt 360  
cgaggaatca acagtcaagc ttcggcgacc aagagatcga actcttcgag ttctacga 418

<210> 12303

<211> 428

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-014-Q1-K1-A10  
  
 <400> 12303  
  
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 ggcaagctcg cggggcacac aggccattct gtcgagaaga tccatgagga cctgtctagg 180  
 gtgaagcgct tcgacgccga aggggctctc gagtacggga tcatcgaccg tattgtcagg 240  
 ccgtctagga tcaagaaaga gggctccact gctcaaagga gggacatgcg gaatctggga 300  
 cttggctaata aatagacgat cgaaatcctg ttgtatcaga attttttgtg caaaggatgc 360  
 gcttattatg ggagagcgag cgatgcactg ttccaagctc tacgcccgcg taggtgtttt 420  
 gttgtgtc 428

<210> 12304  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-014-Q1-K1-A12  
  
 <400> 12304  
  
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 ggaaaattag atgttgcaaa ggctatcgct atagaagcac agagtgaatc taaatggaag 180  
 cagttgggtg aactcgccat gtccacaggc aagctagaga tggcggagga atgccttctt 240  
 caagcgaagg atttaagtgg cttggttgcta ttgtactcat ctcttgagga tgctgaagga 300  
 attgaaaagc ttgcttcttt ggcaaaagaa catggaaaaa acaatgttgc tttcctctgc 360  
 cttttcatgc ttggtaaaat ggaaagattg catacaggtg cttgtagaca gtagccgtat 420  
 acctgaagct gca 433

<210> 12305  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-A3

<400> 12305

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gccagatctg tcgcctgcct tcgctgtagc ttttcggtat cggatgagct cgaggggtac 180  
ggccccggtct gggtagttt cctggagagg ttcccatgaa tgtaggttg cgactgcgat 240  
ggaattgaag tacaagtact cggtggaag ctttgctggt gcatgtgatt ctgactagaa 300  
ggcgaatata gagccaccac cgtgcgcttt gatgcgtgca actgaattca ctgatgttct 360  
gcgagggcgc atctgatcag tgtggatttc tgcaacttgt agttttatcc cgagtgttat 420  
g 421

<210> 12306

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-A5

<400> 12306

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caaatgcgtt cattattcca caatgctcac ttgctcctag tgccattatt ccacagttcc 120  
tcccaccagt tacttcaatg ggcttcgaac acctaacttt gcaagccaac atgcaacaac 180  
aagcgcttgc ggcgagcgtc ttacaacaac caattgccca attgcaacaa caatccttgc 240  
cacatctaac aatacaagcc atcacaacgc aacagcaaca acagttccta ccagcactga 300  
accacctagc catggtgaac cctgccgcct ac 332

<210> 12307

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-A6

<400> 12307

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tgggttcaaa gatgatgtgg tcacccacct ttttgctggt cttggtgctg gcttctttgc 120  
 tgtttgtgtt gggtcccccag ttgatgtggt taagtcgaga atgatgggtg actcagccta 180  
 caaaagcact ctcgattgtt ttgtgaagac gctaaagaat gatggccctt tggcatttta 240  
 caaaggcttc ctgccaaact ttgcaagact gggatcttgg aatgtgatta tgttcttgac 300  
 attggagcag gttcaaaagc tgtttgtgag gaaagcgaca agctgaagat agagtttttg 360  
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<210> 12308

<211> 206

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-B1

<400> 12308

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 ctcttagcac cgaatatact ccaactacat tatctattaa tcaaaccaag cttactattc 120  
 tgtatcactc ccaacatatc aacttctctc tatatatcta ttctatcttc atttccaaat 180  
 ccactctttc accttgctgg tattat 206

<210> 12309

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-014-Q1-K1-B12

<400> 12309

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 gcttatcagg aagcgagtca aaagctgttc aggagcttga tgcagctact tccaaagaag 180  
 atgggccagt agcatcatcc cttaatcgaa ccaagcgttg gcttctctct cactcccaac 240  
 atctcaactt cttctctatc ttgattcttg cttcggttcc aaatccactc tttgaccttg 300  
 ctggtattat gtgtgggcaa tttggtgtgc ctttctggga gttcttggtt gctactttga 360

ttgggaaagc catcatcaag actcatattc agacactatt tatcgtgtcc ctgtgcaaca 420  
atcagc 426

<210> 12310  
<211> 411  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-014-Q1-K1-B3

<400> 12310

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cnatccatcc aggaaacgaa aatcccctta tgtatataca atttgtgaca agttaccaac 120  
accagaagg tcaaatgagg ataagagtta ctacgatatg caggaaatgg gtagatgggtt 180  
ccactaatac cgaggaatta gttgaagggtt ttgaccagga aactgcagct gttgtgttgg 240  
caagatacat ctctttgaaa atggagatgg aggaagagtt cgatgcaacc cgggtggcttg 300  
atagatctct catacgtctt tgttcaagat ttggggatta ccggaaggat gatccctctt 360  
catttagcct gcattcaaat ttctcattgt tccctcagtt tatgtttaat c 411

<210> 12311  
<211> 423  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-014-Q1-K1-B4

<400> 12311

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ggccaccacc aacggctcgg cggagcaggc gtccgcgcc gtgccggcgc tcaagttcct 120  
catctacggc cgcacgggct ggatcggggg gctgctgggc ggcctctgcg ccgcgcgcgg 180  
gatccccttc gtctacggcg ccggcaggct cgagaaccgc gccagctcg aggccgacat 240  
cgacgccgcc gcgcccaccc acgtgttcaa cgccgcgggc gtcacgggcc gncccaacgt 300  
cgactggtgc gagacgcacc gcgccgagac catccgcgcc aacgtcgtgg gcacgctcac 360  
gctcgcgcac atctgccggg gccgaggggt cctgctcatc aactaccca cgggctgcat 420

ctt

423

<210> 12312

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-H5

<400> 12312

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cgctggtgag aggtatggga gaagaaagga agctatagga tcttgcaagc attgtgggaa 120

aatggtctac gacaccttac atattataaa cacgatctat actcatagaa acaacaattt 180

cttacattca accaactggc tgaattgaac tctgctgatt atttgcaaca tcaactacca 240

ttcagtcagc tagctgatgc ctacccccag caatttcttt cattcaacca actggcagga 300

ttgaactctg ctgcttattt acaacatcta caactaccac cat 343

<210> 12313

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-F8

<400> 12313

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ttcgtgggtg agcggatcga gatggcggcg tcggatgttg agtaccgctg cttcgtcggc 120

ggcctcgctt gggccacgga cgaccactcc ctccacaacg ccttcagcac ctacggcgag 180

gtcctcgagt ccaagatcat cctcgatcgg gagacgcaga ggtcccgcgg cttcggcttc 240

gtcaccttct ccacggagga ggcgatgcgg aacgccatcg agggcatgaa cggcaaggag 300

ctggacggcc gcaacatcac cgtcaacgag gccagtcgcc gcggcgggcg tggaagcggc 360

ggcgggtgggt acggtggt 378

<210> 12314

<211> 402

<212> DNA

<213> Zea mays



<223> Clone ID: LIB3059-013-Q1-K1-G1

<400> 12314

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cagggcaciaa cagctgcagc aactcgtgct acctctgac aaccaagtag ctctggcaaa 180  
cctttctccc tactctcagc aacaacaatt tcttccattc aaccaactgt ctacactgaa 240  
ccctgctgct tatttgagc aacaactatt accatttagc cagctagcta ctgcctactc 300  
tcagcaaciaa caacttcttc catttaacca attggccgca ctgaaccccg ctgcttattt 360  
gcagcagcaa atactactac catttagcca gctagctgca gc 402

<210> 12315

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-G10

<400> 12315

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gtagaaataa cgagtgcag tagtaaattg tcatattgca tcagttgata agttgggtatc 120  
tccggtgcaa cttgcttgag tagttgagtt gttgccaa caacactc cacttgaacc 180  
acatattctt aaacattact agaacatcga agagacacac tacgcttaca caccgtcgtg 240  
gaagaataat tgaatagccc caataccaca gtgatcgtga tctataaagg acaacaacat 300  
gccgttcaag gcccattta atattaaaag gttttttaag tttaactact aatgggtttt 360  
cctaagtttt tttcaacaac cattgctttt gccggttttt tttttgggat ttt 413

<210> 12316

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-G11

<400> 12316

ggggatttga caaactcgac ttccggtatc cgatcaccaa agttcgcccg gatcgaggt 60

gggtcattca aggccgtaac ctgtacttag ccggtatgca catgtcgaag aacctctacg 120  
 ggaggtccac ccacaagaca gagggcctga tcaaattcta ccactaccac cacttcataa 180  
 acgtcattga acagccttgc cctgagtttg tgccaatgcc agtcaacctg accaagacga 240  
 tgttccaagg ggttccctat ctataccacg ataacattaa actattggc 289

<210> 12317

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-G12

<400> 12317

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 cttttactaa cccgtgaccc aaacgctggc ggggagatgc cgatgcttcc tatggcagca 120  
 ggtataggtg gtggcgccgg tgggctccac ctcaacggcg ccgccctgtt cggcaatccg 180  
 atggccgcgc cccagcccat gagcttctac caccagatgg gcacggggac tgcttgcgct 240  
 tgcggcttcg atgtttctgc ccccgaaaat aagccctcct cgatggtgtc gcaaaaagac 300  
 gaccaggcta atggcgctga gatctcgctg atgatgtccg tggccggccc aaggccttgg 360  
 aacaacaaca accattaaaa atgattgcgt gtggaagtac tg 402

<210> 12318

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-G5

<400> 12318

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 cacattcatc agaacatgca catgagcgtc aacttgcttg tttccctact aaagaaaaac 120  
 tgacagaatg taagatgcat gtacatcaag agcaccatga ataatccata cagcgtgttc 180  
 taagtctgct cttttgtgaa gtctgctaag ttctggcacc gaggttttat tgaattaaac 240  
 tcttgttaaa agtatgtttt tgga 264

<210> 12319

<211> 356  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-013-Q1-K1-G7  
  
 <400> 12319  
  
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 ttaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaagggcg cccttttttaa agaatccaat tttacttacc ctcccttcca 180  
 acttaatact ttttttatag tgtaacctaa attaaattaa tttcccttct ttttaaaact 240  
 tcttaattgg aaaaaccttg gctttaccaa attaaatccc ttgaaaaaa atccccctttt 300  
 cgcaagttgg cttaatacca aaaagccctt aaccaatcgc ctttccaaaa attttc 356

<210> 12320  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-013-Q1-K1-G8  
  
 <400> 12320  
  
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 gggcttatta caggacaacg tgccttcgat ctagctcgtc ttgctaatga tgatgatgct 120  
 atgcttcttg actgggtcaa ggggttgctc aaggagaaga aactggagag tctggtcgac 180  
 gaagatctag accacaacta catcgatgct gaggtggaat ctctgatcca ggtggcgctc 240  
 ctctgcactc agagcaaccc catggaacgt cctaagatgt cggaggttgt gaggatgctt 300  
 gaaggcgatg gtctcgccga gaggtgggag gagtggcaga aggtagaagt ggtacggcaa 360  
 gaggttgaac taagccctca tcgaacctcg gaatggattc tcgacttcac cggcaacctt 420  
 c 421

<210> 12321  
 <211> 208  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-013-Q1-K1-H10

<400> 12321  
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 aaaaaaaaaa aaaaaaaaaa acaatgtcat tatttaata tattatacca tatcaaaaat 120  
 acaaaaaata aaaaatcaaa cataataaaa tattttatct tctttaattt tttccaattc 180  
 acttttctact tcctttacaa tttacaac 208

<210> 12322  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-H11

<400> 12322  
 gtgatggtgc tgaatatcca tgcgatactg agtctcttga tgacgatcta gatgatagag 60  
 gtaaggaaga tgaatttga gattcaacta tcaggaagtc tttcagttat gggctctctgc 120  
 aatctgacaa ctatgttggg ggcctagttt atgcccacgc aaagattggt ggggagcatg 180  
 aggaccggat atattatagt aaccgaaaaa ctgatgtcag tttccatgta gagaaaggat 240  
 tgccatcaac cacagagaat gggttgctaa ctgctaagcg cagtatactt ccttgagaaa 300  
 agaggaaact gagtttacgg tcgctgaagg ctaaagggtga acctctcttg aaaaaggcat 360  
 atggggaaga gggaagtgat gatattgaat atgatcgacg cttgctaaca tcatttgatg 420  
 aaatctgt 428

<210> 12323  
 <211> 400  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-013-Q1-K1-H2

<400> 12323  
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 cggcctactg cggaaagtac aaggatgagc tcatcaagaa tgctgcctac attggcacc 120  
 ccggcaaggg tacccttgct gctgatgagt cactggcac cattggcaag cgcctttcca 180  
 gcatcaatgt cgagaacgtt gaggagaacc gccgtgccct ccgtgagctc ctattctgct 240

gccctggtgc tctccagtag atcagcgggtg tgatcctctt cgaggagacc ctgtaccaga 300  
 agaccaagga tggcaagcct tttgttgatg tcctcaagga gggaggcgtc ctccctggca 360  
 tcaaggttga caagggcacc attgangttg ttggcactga 400

<210> 12324  
 <211> 272  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-H3

<400> 12324

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaaaa aaaaaaaaaa aaaaaaaaaag 60  
 aaagaataaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa aaaaaaataa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
 aaaaactaaa ttaataaaaa aactttttaa ttcattccatt ttaatactcc cttaataaaa 240  
 aacatttttt tactttattta atattaccaa aa 272

<210> 12325  
 <211> 354  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-F7

<400> 12325

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 ctgagctcga cctaccacta cctcccgctt ggcgcctggg actggcaacc ggcgtgcgca 120  
 gaatgctgcc caccgggtgc aggtgcagcc tcctctcttg cctccgccgc gacaagggcg 180  
 aggcgggccg aaccgacccc cgcgtcgcg acgagcccac cgcgtcgctg ctcggaagg 240  
 gcagcgccgc ggctcggcgg ttcgcgtggg ccgagatcga gtccgtcacg gcggggttct 300  
 cgtccagggg catcgggccag ggcggcttca gcaccgtgta cctggcctgc ctct 354

<210> 12326  
 <211> 411  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-E11

<400> 12326

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gcggtctggc gcaaggctgg cggccccagg aagaagtcgg tgcgcggtc cgtcaaggcc 180  
gggctgcagt tccccgtcgg ccggatcggg cgctacctca agaagggggc gtacgcgcag 240  
cgcgtgggca ccggcgcccc cgtctatctc gccgccgtgc ttgagtacct cgcgcgcgag 300  
gtgctggagc tggccgggaa cgcggcgaag gacaacaaga agacgcgcac cgtcccgcga 360  
cacttgctcc tggcgattcg taacgacgtt gagctcggca agctgctgtc t 411

<210> 12327

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-E12

<400> 12327

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caaaaaataa tacaataaat caagaaaatt atactacact gcagacaata aaccacaaac 120  
aaaccatata caaaagctaa aaaagatact attaaacaca aagctaactt acccatcaag 180  
aatctcttat ctccatccat caaggctcct cttcactttc tcttaaacca tatcgttcgc 240  
tacctcaaaa atgatcaata cgctcaac 268

<210> 12328

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-E2

<400> 12328

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cgcgtcgtgt gcctggctct gtcagctgcc agcgctcttg caatgcagat gccctgcccc 120  
tgcgcggggc tgcagggtt gtacggcgct ggcgccggcc tgacgacgat gatgggcgcc 180

ggcgggctgt acccctacgc ggagtacctg aagcaaccgc aatgcaaccc gcttgcggcc 240  
gcgcctact acgccgggtg tgggcagccg aacgccatgt tccagccgct ccggcaacag 300  
tgctgccagc aacagatgag gatgatggac gtgcagtccg tcgcgagca gctgcagatg 360  
atgatgcagc ttgagcg 377

<210> 12329  
<211> 380  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-013-Q1-K1-E3  
<400> 12329

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aggcctcctt gcgcttcttg cccttttagt gagcgcaaca aatgcgttca ttattccaca 120  
gtgctcactt gtccttagtg ccagtattcc acagttcctc ccaccagtta cttcaatggg 180  
cttcgaacat ccatccgtgc aagcctacag gctacaacta gcgcttgagg cgagcgcctt 240  
acaacaacca attgcccaat tgcaacaaca atccttggca catctaacc tacaacccat 300  
tgcaacgcaa caacaacaac aacagtttct gccatcactg agccacctag ccgtgggtgaa 360  
ccctgtcacc tacttgcaac 380

<210> 12330  
<211> 442  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-013-Q1-K1-E4  
<400> 12330

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gtcttgcgct ttttgcgagc gcaacaaatg cgtccattat tccacaatgc tcaattgctc 120  
ctagttccat tattccacag ttctccacac cagttacttc aatggccttc gaacacccag 180  
ctgtgcaagc ctataggcta caacaagcga ttgcggcgag cgtcttacia caaccaattg 240  
cccaattgca acaacaatcc ttggcacatc taacaatata aaccatcgca acgcaacagc 300

aacaacagtt cctaccagca ctgagccacc tagccatggt gaaccctgtc gcctacttgc 360  
aacagcaact gcttgcaccc aacccacttg ctctagcaaa cgtagtttca aaccagcaac 420  
aacaacaact gcaacaattt tt 442

<210> 12331  
<211> 191  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-E7

<400> 12331

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ttcctcttcg gaccagctcc aatgctcttg gtgtatcttg ccactctcac caatcaagtt 120  
ttcatgtctg atctctacat tcatatccca actgccttcg atcccttctc tgaatccaat 180  
tcttgtcact c 191

<210> 12332  
<211> 228  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-F1

<400> 12332

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ggacaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
aaaaaaaaaa aaaaaaaaaa aaaacaaatt aaaaactcta ttaataacc 228

<210> 12333  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-F10

<400> 12333

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ttgacctct tatgctcctt ggtctttctg caagtgtctg tacggcgacc attttcccgc 120  
 aatgttcaca agctcctata gcttcccttc tcccccgta cctctcacca gtgttgtctt 180  
 cagtatgtga aaaccaatt cttcaaacc tacaggatcc aacatgcaat tgcacagggc 240  
 atcttacctt tatcaccctt ggtccttcaa caatcatcag ccctattaca gcagttacct 300  
 ttggtgcatt tattggcaca aaacatcaag gcacaacaac tcgtgctagc aaaccttgct 360  
 gctactctc agcaacaaca gttacctttg gtgcatttgt tggcacaaaa catcagggca 420  
 caacaact 428

<210> 12334

<211> 384

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-013-Q1-K1-F11

<400> 12334

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 ggctcgttgc cctcgtctc ctggctctcg ctgcgagcgc cacctccacg catacaagcg 120  
 gcggctgcgg ctgccagcca ccgccgccgg ttcattctacc gccgccggtg catctgccac 180  
 ctccggttca cctgccacct ccggtgcac tcccaccgcc ggtccacctg ccgccgccgg 240  
 tccacctgcc accgccggtc catgtgccgn cgcgcgttca tctgcgcgncg ncacctgcc 300  
 actaccctac tcaaccgncc cggcctcagc ctcatccca gccacacca tgcccgtgcc 360  
 aacagccgca ttcaagcccg tgcc 384

<210> 12335

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-F12

<400> 12335

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 caccttttat gttttttttc attttagttc cttttaatgt ctcttgtttt ttacctgga 120  
 cgctactttt ctttgtcagc ataatgcata tacaagtttt atcatgtaag taatctttca 180

attttcctgc tgcataatggt gttttccact ttttcccatg atcattaata ctatacatc 240  
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taat 304

<210> 12336  
<211> 433  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-013-Q1-K1-F3  
<400> 12336

cccacgcgtc cgatatgaaa cacatgtcgg aatgagtagc ccggaaccga agataaagac 60  
agatgtaaac tttagggatg aagtcctccc aagaataaaa aaacttgatg acaatgcagt 120  
gcaaataatg gcaatccaag agcactcata ttatggaagc tttggatacc atgtaactaa 180  
tttttttgcg ccaagtagtc gttttggtac ccagaagaa ttgaagtctt tgattgatag 240  
agcacatgag cttggtttgc tagttctcat ggatgtgggt catagtcatg cgtcaagtaa 300  
tactctggat gggttgaatg gttttgatgg tacagataca cttactttc acagtgggtcc 360  
acgtggccat cactggatgt gggattctcg cctatntaac tatgggaact gggaaatttt 420  
aagatttctt ctc 433

<210> 12337  
<211> 258  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-013-Q1-K1-F4  
<400> 12337

cggacgcgtg ggatgacgtt caagcggagg aacggcggac gcaacaagca cgggctgtgc 60  
gacgtcaagt acatacgtg ctccaactgc gccaaagtgt gtccaaagga taaggctatc 120  
aagcggttct tggtagaggaa cattgttgag caggctgctg tgagggacgt gcaggaggct 180  
tgtgtgcatg atggtatcat agtcgccctt attagttgca taatttagtc ggatgatcta 240  
tttatagggt atctagag 258

<210> 12338  
 <211> 413  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-E1

<400> 12338

cagctagcaa catagaaagc acaatattgt accaataatg gcagccaaaa tatttttggt 60  
 cgttatgctc cttgggtcttt ctgcaagtgc tgctacggcg agcattttcc cgcaatgctc 120  
 acaagctcct atagcttccc ttcttcccc atacctctca ccagcgatgt cttcagtatg 180  
 tgaaaatcca attcttctac cctacaggat ccaacaggca atcgcagcag gcatcttacc 240  
 tttatcacc ttgttctcc aacaatcatc agccctatta cagcagttac ctttggtgca 300  
 tttattggca caaaacatca gggcacaaca actacaacaa ctctgctag caaaccttgc 360  
 tgctactct cagcaacagc agttaccttt ggtgcatttg ttggcacaaa aca 413

<210> 12339  
 <211> 392  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-C5

<400> 12339

gcatgtacac gggccagttc gtctactgcg gtgcgcgcgc caccctctcc atgggcggcg 60  
 tgctgcccct gcgcgggatc cctgaggggtg ccgtcgtctg caacgtcgag caccacgtcg 120  
 gtgaccgcgg tgtcttcgcc agggcctctg gggactacgc cattgtgatc agccacaacc 180  
 ctgacaacgg cacatcgagg attaagctgc cctctggcgc caagaagatt gtccccagca 240  
 gctgccgtgc tatgattggg caggttgctg gtggaggcag gactgagaag ccgatgctca 300  
 aggctggtaa cgcgtaccac aagtaccgtg tgaagaggaa cagctggccc aaggtgcgtg 360  
 gtgtggccat gaaccctgtg gagcatcccc ac 392

<210> 12340  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-C6

<400> 12340

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cagctctacg cgatggcata cggcacccgt cctgtggtgc acgccgtggg cgggctcagg 120  
gacaccgtgg cgccgttcga cccgttcagc gacgccgggc tcgggtggac ttttgaccgc 180  
gccgaggcca acaagctgat cgaggcgctc aggcactgcc tcgacacgta ccggaactac 240  
gaggagagct ggaagagtct ccaggcgcg cggcatgtgc aggacctcag ctgggaccac 300  
gcggctgagc tctacgagga cgtccttgtc aaggccaagt accagtgggtg aacccttcgc 360  
ccttcgcata aatatcttcg gtttgatccc attgtacata gcgcgtttga cggctctcgtt 420  
gaagaacttc ata 433

<210> 12341

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-C7

<400> 12341

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tcattttcca ctccaacgtc acattccaat acgcgaccca taacttgctc ataataccgg 120  
atcacattta ttccataatt actgtccca cctaccccaa gacaatacta cagttctcct 180  
acattttaca tatctatacc tcgaactctt aatgcactaa gacaatcact cacttaatca 240  
atgcaacttt 250

<210> 12342

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-C8

<400> 12342

cccacgcgtc cgcccacgcg tccgcccacg cgtccgagct gaacaagcag agtggtcgtc 60  
ttatcaacaa caatgtcatc gaggagggcc ttgggaagca taatatcatc tgcacgagg 120

accttgttca cgagatcatg acggttggcc cacacttcaa agaggccaac aacttctct 180  
ggccattcaa gctgaaagcg ccccttgggtg gcctcaagaa gaagaggaac cactatgtgg 240  
aggggtggcga cgctggcaac cgtgagaact acatcaacga gctcatcaag aggatgaact 300  
aggctctctt gtatcctgtg agaatgcatt cgatgtcggc atggatatgc aattttgttc 360  
catggctgtc atacgtcacg acttcaacta ggaaatgggt cctgtttatg tttgca 416

<210> 12343  
<211> 431  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-013-Q1-K1-C9

<400> 12343

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gattatctcc cttacaactc agattgcacg acgggatgaa gaaatggctc cttatatcac 120  
ggaatcagaa aggaattaca tatttgggtgg gatttccagt gttgctgcta atgcatcaat 180  
aaaggcactt gctcaaata agtcaataaa cttgttagga gtccagcaaa tatgcaagaa 240  
ttcgatagct ctggacaggc tcttgcagcc ataccctcaa tagatagtga agcagtccaa 300  
cagcgattgg atcgcgttcg aacgttctat gagttgttaa atttgccttt tgagtctttg 360  
cttggattca tcgcagaaca tgaatatntg ntntctgcta aagaatacct gagtgttcta 420  
aaggtcaatg t 431

<210> 12344  
<211> 380  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-013-Q1-K1-D1

<400> 12344

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cgtcacactg tgccctgcaa ggtcaccggc aagtgccggt ccgtcaccgt gcgcatgggtg 120  
cccgcgccca aggggttccg gattgtcgct tgccgcgttc ccaaaaaagg ccctcaagtc 180

ggccgcattg aagatggctt tacctcgntc cgtggctcca acaagacact cggtaacttc 240  
 gtcaaaggaa ccccttgatt gtctgatgaa gacctacggc ttcctcactc ctgagttctg 300  
 ggccgagacc aagtatgcca agaccccggt ccaggagttc accgacctct tggctaagcc 360  
 gacaaagggg cttctgatcg 380

<210> 12345

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-D11

<400> 12345

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 cgggtcacaa cagctgcagc aactcgtgct acctgtgatc aaccaagtag ctctggcaaa 120  
 cctttctccc tactctccgc aacaacaatt tcttccattc aaccaactgt ctacactgaa 180  
 cctgctgct tatttgcagc aacaactatt accatttagc cagctagcta ctgcctactc 240  
 tcaacaacaa caacttcttc catttaacca attggccgca ctgaaccccg ctgcttattt 300  
 gcagcagcaa atactactac catttagcca gctagctaca gcaagccgtg ctctcttctt 360  
 gacacaacaa caattgctgc cgttctacca gcagtttgcg gctaaccccg caacctctt 420  
 acaactacaa c 431

<210> 12346

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-D12

<400> 12346

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 atattttccc tccttatgct ccttgctctt tctacatgtg ttgctaacgc gacaattttc 120  
 cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaattata 180  
 gcttcaatat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgcagca 240  
 agcaacatac ctttatcgcc ctt 263

<210> 12347  
 <211> 388  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-013-Q1-K1-D2  
  
 <400> 12347  
  
 ggtgatgcga cgcccgcccc gttccaagtc ctgacaaccg agcgtacgct gagctggagt 60  
 gaacggcgct ggctaccgga agagccgagc cggaccaagt ctctctgtcc ctcacctcgt 120  
 cgccgatgga gggcgggcgac tcgtccggcg cgggcgccgg cggcgccgtg ggccgcggcg 180  
 gccaaagtggc ggagcgacgc gtcgcggggc ttccagtact acctggaccg ctgcacgcct 240  
 cagccacgg ggcgggtggc cggcacgctc gccgcccgcg ccatctacgc gctgcggggt 300  
 tacatggtgc aaggcttcta catcgtcacc tacgggctcg ggatctacct tctcaacctc 360  
 ctcatcggtt tcctctcccc catggtcg 388

<210> 12348  
 <211> 245  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-013-Q1-K1-D3  
  
 <400> 12348  
  
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 cgttacatct gacacctacg tttcacctgc cacctcccg tcatatacca cccctatcc 120  
 acctttcgcc atcagtcac ctatcatcat ccgttcaagt gccgtccaca attcatctgc 180  
 caacgtcacc atgccaatac cctactcaac caaccaagtc ttaaactcat acccatacac 240  
 accca 245

<210> 12349  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-013-Q1-K1-D4  
  
 <400> 12349

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 tgttgctgct gctcaccgtc cagetgagct tgctcttccg cctccccgac tccccctcca 120  
 ccctcgccct cgccctcgcc ctgcgcgcgg aaccagacca acagaacgcc aagcagcatc 180  
 gccagcccg cgtgctggtg cagtcgacgt gcaactccac cagcttctac gacctctgca 240  
 tcgcccgcgt cgccgcccgc cccgccagct ccaccgncga cgtcccgggc ctgggcggca 300  
 tcgccgtgtc cgccgcccga aacaacgcct ncggcacggc cgncttctc ggcaacgcca 360  
 ggcagccgc gccaccccc catgcccacc gcgcgcgttc ctgcgcgagc aggcctacca 420  
 c 421

<210> 12350  
 <211> 227  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-013-Q1-K1-D5

<400> 12350

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 tnactggtgg nnttttgagt gcnttggtat tctcctaagn ngatggcccc agacgccttg 120  
 gagnncatgt ctctccgttg cgggtgtcaac tttcttggaa agtgaagcnn agatgatttn 180  
 tngctgctgc taactaanng atggatgccc aacgacctcn nccaaat 227

<210> 12351  
 <211> 439  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-D6

<400> 12351

ctttatcgtc cttgttgttt caacaattgc cagccctatc tttggtgcag tcagtgtgac 60  
 aaaccatcag ggcaaacag ctgcagcaac tcgtgctacc tctgatcaac caagtagctc 120  
 tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac caactgtcta 180  
 cactgaaccc tgctgcttat ttgcagcaac aactattacc atttagccag ctagctactg 240



cctactctca gcaacaacaa cttcttccat ttaaccaatt ggccgcactg aaccccgctg 300  
 cttatttgca gcagcaaata ctactaccat ttagccagct agctgcagca aaccgtgctt 360  
 ccttcttgac acagcaacag ttgctgcctt tctaccagca gtttgcggct aaccccgcaa 420  
 cccttttaca actacaaca 439

<210> 12352  
 <211> 368  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-013-Q1-K1-D7  
 <400> 12352

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 agcgatggcg cgcggcgtgg tgtcggcgaa gggcggctcg gtcgcgggca agaagaaggg 120  
 gtcggtttcc ttcacgatcg actgcaccaa gccagtggag gacaagatca tggaggctcg 180  
 ctcgctcgag aagttcctgc aggagcgcac caaggctgcc gtcgacaagg ctgtcaacct 240  
 cggcgactcc gtcaccatct ctcgcgagaa gaccaaggtc accgtcacct ttgacggacg 300  
 cttgtccaag aggtacctga agtacttgac caagaagtac ttgaataagc acaacgtgcg 360  
 ggattggc 368

<210> 12353  
 <211> 361  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-013-Q1-K1-D8  
 <400> 12353

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 tacatccctc gggctggcag tatcacagc ctaaccagcc acaacttcag catcctgaac 120  
 ctcgtagaga taagctcggc tcctgtatac ctgtaccagg acgccatcat gtttccgctc 180  
 tggaacttca acgcctacat ctccatctac cacatcaagg gctgtacacg ggtacagctc 240  
 gtcagctaca acgctaccac gtcttttagac gacctgctct gacctgcgct gctactcatc 300  
 gcaccttact gctacctgca agccacctat gctcactgag caagctcgca ttacatcgcc 360

<210> 12354  
 <211> 368  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-013-Q1-K1-D9

<400> 12354

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 tcgtcgccca tggctggcct cctctataca gcgaccgcca cccctgtag cttccctct 180  
 gcctcgggcg ccccttcttc ttgtacctcc agcagcaagg atttaacccc ccatggcgctg 240  
 tggccttgcc tgctccacgg tctgcagcag ccctgcgctc acctnccatg gaaaaccagt 300  
 ccgcttctcg cctccggcaa gccgcatttg ttccctgcgc gagctcgctg cggggcgccc 360  
 tagccact 368

<210> 12355  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-C4

<400> 12355

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 tctaacacct tgttcacgag atcatgactg ttggcccaca cttcaaagag gccacaact 180  
 tcctctggcc attcaagctg aaagcgcccc ttggtggcct caagaagaag aggaaccact 240  
 atgtggaggg tggcgactct ggcaaccgtg agaactacat caactagctc atcaagagga 300  
 tgaactaggc tctcttgat cctgtgaaaa tgcattctat gtcggcatgg atatgcaatt 360  
 ttgttccatg gctgtcatat gtcacgactt caactaagaa atgggtcctg tttatatt 418

<210> 12356  
 <211> 430

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-013-Q1-K1-A9  
  
 <400> 12356  
  
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 gaatagagca acaatggaga ccaagatatt ttccctcctt atgtccttg ctctttctac 120  
 atgtgttgct aacgcgacaa ttttccctca atgtcacaa gtcctatat agttcccttt 180  
 ttccccatat acttcacatc atttatagct tcagtatgtg aaaacccatc tcttcaacca 240  
 tataggcttc aacaagcaat cgcagcaagc aacatacctt tatcgccctt gttgtgtcaa 300  
 caatcgccag ccctatcttt ggtgcagtca ttggtacaaa ccatcagggc acaacagctg 360  
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 ccgcaacaac 430

<210> 12357  
 <211> 242  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-013-Q1-K1-B11  
  
 <400> 12357  
  
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 agtgtaccaa caatgtcagc cagaatattt ttctcctta tgctccttgg tctttctgca 120  
 agtgctgcta ctgtaccat tttcccgcaa tgctcacaat ctctatagc ttcccttctt 180  
 ccccttacc tttcaccagt gttgtcttca ttatgtcaaa acccaattct ttaaccttac 240  
 at 242

<210> 12358  
 <211> 373  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-013-Q1-K1-B12  
  
 <400> 12358  
  
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caagtgggag acgaatctca tgaccaggct gaagaagaag cgctgaaga tgatgcagag 120  
atccaactaa gctaataaggc atagatccta gtagtctcat cataattgtg tatcgtggct 180  
tcgatacatg agtgcacga tagatgtaag attctattta tgcataagacg ttacgatatt 240  
agttcaatgg ctccgtttgc aaacctgcac ttgataggcc atctatcctg cactctagct 300  
atatatcata tcgttgtgct tagacatata cataattctg tgctaagaac ctatcatgat 360  
ggagctttat gaa 373

<210> 12359

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-B2

<400> 12359

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tgcgcggggc tgcagggctt gtacggcgct ggcgcgggcc tgacgacgat gatgggcgcc 180  
ggcgggctgt acccctacgc ggagtacctg aggcagccgc agtgcagccc gctggcggcg 240  
gcgcctact acgcggggtg tgggcagccg agcgccatgt tccagccgct ccggcaacag 300  
tgctgccagc agcagatgag gatgatggac gtgcagtcg tcgcgcaaca 350

<210> 12360

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-B7

<400> 12360

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tattctcta gctatttctg caagtgtgc tactgtacc atattccctc aatactcaca 120  
agctcctata acttaccttc tcccccgta cctatcacca actgtgtctt cagtatgtga 180  
aaacccaatt cttcaaccct acacgatcca acatgcaatc acagctgaca tcttaccttt 240  
atcacccttg ttctccaac aatcatcagc cctattacat catttacctt ttgtgcattt 300

attgtcacaa aacatcatgt cacaacaact acaacaactt gtgctagcaa accttgcttc 360  
ctactcttat caacatcatt ttcttccat 389

<210> 12361  
<211> 414  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-013-Q1-K1-B8  
  
<400> 12361

atgttgtcag aattcacccc tgagcagcag catgcgttct gccagtttgt aacgtgtgct 60  
cctcggtctc cacatggtgg attggctgcc cttagcccca agcttactat agttaggaag 120  
catccttcaa gtgctgtgaa tacttcaa at tcaactgggg cagtagagtc cgctgatgat 180  
gatttgctta gtgtgatgac gtgcgccaat tatctgaagc tgcccccta ctccacaaaa 240  
gaaatcatgc gcaagaagtt gctttatgcg atcctggaag gccgaggatc atttgatctt 300  
tcataagaaa tatacaatat ccgaactaac atacaggggt cagttttatt ctggagattt 360  
agtttcttgg tccatgtata aactgagtt gaggttacca gtcactcag caaa 414

<210> 12362  
<211> 413  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-013-Q1-K1-C1  
  
<400> 12362

ggggaagaga gagagagaga cggaaagggg gagatgagcc ggagcctgng gatcccgtga 60  
ggttgctcca tgaggcagcg ggtcatgtgg tgacggtgga gctcaagacc ggcgaagtgt 120  
accgggggtc catggtcgag tgcgaggata actggaattg ccagctcgag aacattacct 180  
tcaccgccaa ggatgggaag gtttcgcagc tggagcacgt cttcatcaga ggaagcagag 240  
tgagatttat gattatacct gatatgctca agaacgcttc catgttcaaa cgcttggaag 300  
cgagaattat gggcaaagga tcagctattg gagttgggcg tggacgtgca gttgcaatgc 360  
gtgctcgggc tgcttctggt cgtggtggtg gtctgttgg gcgaggcaac gcg 413

<210> 12363  
 <211> 415  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-C10

<400> 12363

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 ggactactgg atcgtgaaga actcatgggg cagcagctgg ggcgagtccg ggtacgtgag 180  
 gatggagcgc aacatcaagg cgtccagcgg caagtgcggt atcgcggttg agccgtcata 240  
 cccgttgaag gagggcgcca acccgccgaa ccctggcccc agcccgccgt ccccgacccc 300  
 ggcgcccgcc gtgtgcgaca actactactc gtgccctgac agcaccacct gctgctgcat 360  
 ctacgagtac ggcaagtact gtttcgcctg gggctgctgc ccgctcgagg gcgcc 415

<210> 12364  
 <211> 413  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-C12

<400> 12364

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 caggactaca acaggggaacc gtgtctttgg tgcctcaag ggagcattgg atggaggcct 180  
 ggatattcct cacagcgaga agaggtttgc tggattcaag aaggacgaca agcagttgga 240  
 tgctgatacc caccgcaggt acatctatgg tggccatgtt gctgactaca tgaagaacct 300  
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 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-C2

<400> 12365

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gcccttgtga actacggcaa agactacggc cgccctcgctc tcctcgctcga tgtggtcgac 180  
cagaacaggg cacttgtgga cggccctgat atggtcaggt gccagattaa cttcaaacgg 240  
ctctcactta ccgacatcaa gattgacatc aaacgtgtcc ccaagaagtc aaccttgatc 300  
aaggctatgg aggaagctga tgtgaagact aagtgggaga acagctcatg gggcaagaag 360  
ctgattgtcc agaagaggag ggctgcactc aatgactttg acaggttcaa ggtcatgctg 420  
gcaaggatca aaaagggt 438

<210> 12366

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-C3

<400> 12366

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tgacaactac ccaagcttta agaaacccaaa aatttcctat ttcattaaca tacaccatct 120  
tatgatcact aaacctatct ttatactata tattagaacc tgtcattaat tttcaagcaa 180  
gacgacggtc tttttataac caacattcat acttacaagt acacttaatt ttcttaaaaa 240  
tattttgttt cacctaaacc taaattaaaa gtcctccctt aacaaaacca taactgtgaa 300  
aat 303

<210> 12367

<211> 168

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-G4

<400> 12367

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caaatttcgc taatccaaaa ctcaatcctc actctttaa atactacaag attcctttat 120  
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<210> 12368

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-G8

<400> 12368

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gccggtgcaa gtcctaacaa gccgcacgc atcgcatgcg tgtgctgtcc gaccgccatc 120  
tccgcagccg gctggcctag ctacctcacc tcacctcacg caggcacact gcacacacac 180  
ccatggtggt ggcggcgatg cggcgccgt gcgctgtgcc agcgtgctg gtggcgccgg 240  
cgacggcgac gctagtgttt ctgctgtgc tgtcacgcg gagcgcgcag ccggtgccgt 300  
ccccggcggc ggcgcgggc cccgcgggc ggaccgggat cgactcggcg tgccctgaact 360  
cgctgtctaa catgtcggac tgccctccgt acgtgagcca agggagcacg gcgc 414

<210> 12369

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-G9

<400> 12369

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aaagtggaaa tggttttagg aggacctgca acatcccctg ttacttcctc gcacttttgg 180  
ataaatatgc ggtagccctt tgagggtgagt gggagtgggg atgcttcgcc tatgctgttc 240  
agtatgtaca tgtctgttat tcccataatt tccaccgttt tgaaatacac attccaatta 300  
gtactttatt ctttgtgctt ggtaccctaa atgtcaattc ctaattgaaa atacattttt 360  
tttgtagtgt taagatttgt aatgtgtcat ttgattatgt taaatattaa aca 413

<210> 12370



<211> 235  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-012-Q1-K1-H11  
  
 <400> 12370  
  
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 ctcaattgct gctaattgcaa atcacgtaca atttatacta gcaatgactt actactgctt 120  
 tgaaactcta tctattcaag cctaccttct aaaactggca cttacagaca gcacattacg 180  
 actatcgaat ggccaaatgc aacaacaatt cttggccaat ttacaaaatg aagca 235

<210> 12371  
 <211> 392  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-012-Q1-K1-H12  
  
 <400> 12371  
  
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 cggcggggca tcctccaacg aaagcatcct caagtcagtc gcgcagatct tcggctgccc 180  
 tgtcttcaca gtccagagac ctgattcggc atcgctgggt gcagcgctga gagctgcccc 240  
 cgggtggctg tgcaacgcgc aaggtagctt cgtcccatc tcgtgcctgt accagggcaa 300  
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 ccggaagctc ctccagaagt acaccatcct ga 392

<210> 12372  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-012-Q1-K1-H2  
  
 <400> 12372  
  
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accgcctccg ttctatatgc cgctccggtt ctatctgccg ccgcagcagc agccgcagcc 180  
atggcaatac cccactcaac caccgcagct aagcccggtc cagcagttcg gatcctgcgg 240  
cgtcggcagc gtcggcagcc cgttcctggg ccagtgcgtc gagttcctga ggcaccagtg 300  
cagcccgggc ggcagccctt acggctcgcc acagtgccag gcgctgcagc agcagtgtctg 360  
ccaccagatc aggcaggtgg agccgctgca ccggtaccag gcgacatacg gtgtgggtcct 420  
gcaatccttc 430

<210> 12373  
<211> 244  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-H3

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cgctggggcc acggacgacc actccctcca caacgccttc agcacctacg gcgaggtcct 180  
cgagtccaag atcatgctcg atcgggagac gcagaggtcc cgcggttctt gcttcgtcac 240  
cttc 244

<210> 12374  
<211> 429  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-H5

<400> 12374  
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ttttccgtcc tctttatctc cagcgcacgc taaaggagg agcggagcgg cgaattcttg 120  
tggtttccca agatgtcttc tccaagcaag cgccgggaga tggacctcat gaagctgatg 180  
atgagcgact acaaggtgga tatggtgaac gatgggatgc aggagttctt tgttgaattt 240  
cgtgggccta acgaaagcat ttatcaatga tggatttgga aggtttgaag agaactggca 300  
aattcctgtt cttaccaatt ccatttgatt gggttcatta ataagatata ttacccaaat 360

gtcgatgaaa tgtctggttc agtctgtttg gatgtcatta accagacatg gatcccaatg 420  
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<210> 12375  
 <211> 307  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 atatgctctg attaaatggg tggcccatgt agtttacagc aaaggttgcc acctggatca 180  
 tcatgttcac catgtacgaa accgtattca caagaaatta ttttccttgg ctttgttggc 240  
 aactgcatcc catgttatat gataattnga tattgccata cgacacttga gtatccatgt 300  
 agagaca 307

<210> 12376  
 <211> 294  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 agtatgaatt tctgatcatg tcttatgtct gtactctgaa tcaactatgt atgagatctc 120  
 atctcctttc tcctactgaa tgaatgaatc attattggct aaaaaaaaaa aaaacaaaaa 180  
 aaaaaaaaaa aacaaataca aaaaaaaaca aacattcaaa caaaaaaaaaa gcgagccgcc 240  
 cactctaaaa gaatccaact tacttaccct ttcttgctac attgtacctc tttt 294

<210> 12377  
 <211> 261  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-A11

<400> 12377

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ctattttttt tatttttttt tatatgattt tttttaaaatt tttgtccccc tttttttttt 120  
tatttttttt tttctttttc atatttttat tctttttatt cttatttctt ctttttccct 180  
tctttttata ttttttcttt ttcttttcat tattatatta tatttcttcc tatataattt 240  
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<210> 12378

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-G2

<400> 12378

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gcccttggtg tttcaacaat cgccagccct atctttggtg cagtcattgg tacaaccat 120  
cagggcacaa cagctgcagc aactcgtgct acctctgatc aaccaagtag ctctggcaaa 180  
cctttctccc tactctcagc aacaacaatt tcttccattc aaccaactgt ctacactgaa 240  
ccctgctgct tatttgcagc aacaactatt accatttagc cagctagcta ctgcctactc 300  
tcagcaacaa caacttcttc catttaacca attggccgca ctgaaccccg ctgcttattt 360  
gcagcagcaa atactactac catttagcca gctagctgca gcaaaccgtg cttccttctt 420  
gacacaacaa c 431

<210> 12379

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-E2

<400> 12379

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ggttcacctt tgagggtaaa gagcttgagt tctacatgaa gaagctacag aggaagaag 120

gcaagagcgc thtagcttag agcattctca tggattgtct tgcaccgaaa tgtgtgtcct 180  
gatgagtaca ctttttttgg ttagtcgtct caagttcaga gcgttatgcc atgtattcag 240  
acctgattag tacactcttt tctaaaagcg 270

<210> 12380

<211> 172

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-E3

<400> 12380

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aacttcatac ctcttctata gtatcaccta aatccaattc actgcccttc gt 172

<210> 12381

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-E4

<400> 12381

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gagaatctcg ggacgggaac gggacaggac cccaaaatct cagatccttc ctgcccggcc 120  
gcccgtgccc gtcgacgctg cgttcttgcc ggccgcgccc cacctccgcc ctctcctcct 180  
ccagggggat cggatacgcc acagtctgct cgatggtgct gtgggtcttc ggctactgat 240  
ccctcatctg gaaccccgcc ttcaactatt tctacaatat cctcggctat atcaatggct 300  
acaagcgcac ctttaatc 318

<210> 12382

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-E8

<400> 12382

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gccttgggga acggaggcgc cgctggtggt tttgatggag aagctggcaa cggcggcggt 120  
ggaggaggaa acggtggcgg tgacggcget ggtggtggtt acggcagctc cgggtgctggc 180  
gatgagcttc atggcgtatc tggtagtggc gacggaggcg aggtcgggta taatggcaag 240  
ggacctcca gcggtggact ctggagcaag cgtggccat 279

<210> 12383  
<211> 307  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-F1

<400> 12383

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catctaacc tacaaccat tgcaacgcaa caacaacaac aacagtttct gccatcactg 180  
agccacctag ccgtggtgaa ccctgtcacc tacttgcaac agcagctgct tgcattcaac 240  
ccacttgctc tggcgaacgt aactgcatac aatcaacaac aacatctgca acagtttatg 300  
ctagtgc 307

<210> 12384  
<211> 338  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-F3

<400> 12384

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ctgtgagccc tgctgccttc ttgacacagc aacaattggt gtcgttctac ctgcacgctg 180  
cgcctaacgt tggcaccctc ttacaactgc aacaattgct gccattcaac caacttgctt 240  
tgacaaacc agcagcgctc taccaacaac ccatcattgg tggcgccctc ttttagattg 300  
ctaattgagt atagttcaat aataaagttt ttttgatg 338

<210> 12385  
 <211> 398  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 12385  
  
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 tgagtcgccc cacagacgtg cctgatactg gattgctctg tgaccttctt tggctctgac 180  
 cttctaataga agcaacagga tggggcataa atgatcgagg tgtttcatat acatttggtc 240  
 ctgataaagt ttctgaattc cttgataagc atgatttgga cctcatctgc cgagcccatc 300  
 aggttgctga aaaatgatat gagnnttttcg ctagecggca aactgttacc atgttttcaa 360  
 gcccttacta ctggggagaa tttgataacg cttgtgcc 398

<210> 12386  
 <211> 268  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-012-Q1-K1-F7  
  
 <400> 12386  
  
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 cagacgcata atctgctacc gacagtaaata ggtgatatgg acgagcaatt agaatatgct 180  
 acaggaagtg ctgcaagttg tgaagcacia gtgtatgcat atatgtgtct caaggaaagt 240  
 ttgaaccaat gcaattcatg gaatgaat 268

<210> 12387  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-012-Q1-K1-F8  
  
 <400> 12387

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tcattattcc ccaatgctca cttgctccta gtgccattat tccacagttc ctccctccag 180  
ttacttcaat gggcttcgaa caccatctg tgcaagccta caggctacaa caagcgcttg 240  
cggcgagcgt cttacaacaa ccaattgccc aattacaaca acaatccttg gcacatctaa 300  
ccatacaaac catcgcaacg caacagcaac aacaatttct accagcacta agccaactag 360  
ctgtggtgaa ccctgtcgcc tacttgcaac agcagttgct tgcaccaac ccacttgctc 420  
tgg 423

<210> 12388  
<211> 253  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-012-Q1-K1-G1  
<400> 12388

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accagcgctc agtcaactag ccatggtgaa ccctgccgcc tacctacaac agcaacaact 180  
gatttcactc agccctctcg ctgtggttaa tgcacctaca tacctgcaac aacagttgct 240  
gcaacagatt gta 253

<210> 12389  
<211> 419  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-012-Q1-K1-G10  
<400> 12389

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gaagcttctt gccagaggc tgaaggaaca gagagaccgc cggagcgaga gcttggccaa 180  
gaggaggtcc aagctttctg ccgccgcaa ggcttctgct gccacctctg cttaagaatg 240



ttcagtgttt tgggatcttt gtaagggtcta tcttgtaacg gcaaaaagtgt tttgggatct 300  
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<210> 12390  
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 <212> DNA  
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<223> Clone ID: LIB3059-012-Q1-K1-G12

<400> 12390

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 aatttaaaaa aataccaa 78

<210> 12391  
 <211> 227  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-C5

<400> 12391

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 cagcagcatg gccgccacca ccaccaaccc aggcagggcg gcggggccctc gtgcagtgtc 180  
 atgtgaacta gcatacccat gcatgcatgt ttggtggtgt cgctctc 227

<210> 12392  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-C6

<400> 12392

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 gccctggtga tctttgtgc cactgccggt gcttcttctt gttatttctt gtccaagcta 180

gtagggaaac cactggtcctt ctcgttgtgg ccagacaagc tcacgttctt ccaaaagcag 240  
gttgcaaaaa gaagagagaa gctgctgaat tacatgcttt tcctgagagt cactccaaca 300  
ctgcccataa ctttcatcaa tttttcttca cctatagtgg gtgtgccata ccatactttc 360  
ttctttgcga cggccattgg cctcgtacca gctgcctatg tgactgtcaa ggctgg 416

<210> 12393  
<211> 429  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-012-Q1-K1-C7

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ggttgattca accaacaaga tttaccgcga tattgtatat gaggaactat ccaaagcaga 180  
agctcctgat caatgtgctg acacaagata actgcacacc tagagaacac cttttacaag 240  
gacttaagcg ccgttccatg ggaaaagggtg gatgttaagt ttcacaatag taaagtaaga 300  
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gacctggac 429

<210> 12394  
<211> 416  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-D12

<400> 12394

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tggcaacctg tatccctcac tgatttgatc actgctgctg ctgttaaaaa agtgtacaga 180  
aaagcaacac tgtgtatcca tcctgacaag gtgcagcaaa agggtgcaaa tctccaacag 240

aaatatatcg ctgagaaggt ttttgatctc cttaaggagg cgtggaacaa actcaactct 300  
gaagagctct tctaaacagc ctacgactg aacatagcgt cgtccctcag ggtctgcaca 360  
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<210> 12395

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-D2

<400> 12395

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ccgtctctcc gtcttctcgc gtgagcacgt gccgccggcc gtctccgctg tcacctccct 180  
gccagttatc gacatgtctc gcagccgcga cgaggtccgc cgcgctatcc tcgactccgg 240  
catggagttc ggcttcttcc tgggtggtgga gcacagcatc ccagatgagg tgatgcgcga 300  
cattctggag gtgtgcgagg agttcttcca gctgccggcg gctagcaagg cgtacatgta 360  
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<210> 12396

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-D4

<400> 12396

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agctgcgctg tgcttcgcgg ccctggtggc cgtggccgct tgccaaggcg aggtcgagcg 120  
gcagaggctc agggacctgc agtgctggca ggaggtccag gagagcccgc tcgacgcgctg 180  
ccgccaggtc ctcgaccggc agctaaccgg cggcggcggc ggcggcggcg ttggcccgtt 240  
ccggtggggc accgggctcc ggatgcggtg ctgccagcag ctccagtacg tgagccgcga 300  
gtgccgctgc gccgccatcc ggagcatggt caggggctac gaggaagcca tgccgccgct 360  
ggagaaaggc tgggtggccat gggggcggca gcagcagccg ccgtcgctag gaggaaggag 420

gaggaca

427

<210> 12397  
<211> 398  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-012-Q1-K1-D7  
  
<400> 12397

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gaccagttta atggctatgt gcttgatgga agaagtttga ggggtgaactc tgggccgnca 120  
ccaccagag atcggtcatc accgtcaccg caaagacca ggggtgatgc caacagggtc 180  
tacgtgggta acctttcctg gggagttgac aattcagctc tcgcaaacct gttcagtga 240  
caaggtgagg tactggaagc aaggatcatc tatgacagg agagtggaag gtcaaggggg 300  
tttggttttg tcacgtacgg ttccgccgta gaggttgaga atgcaatata taatctcgat 360  
ggcgctgact tggacggctg acagatccgt gttacggt 398

<210> 12398  
<211> 168  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-012-Q1-K1-E1  
  
<400> 12398

ccgacgcgtt cgtggacgcg tgggcggact cgtgggggca ggtcgtcaag ggggtctgga 60  
agacttaaga ccgagccgtg cgggggctcg ggacgggaac tggacaggac cccaaaatct 120  
cagatccttc ctgcccgcgc gcccggtgcc gtcgactcgt cgttcttg 168

<210> 12399  
<211> 407  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-012-Q1-K1-E10  
  
<400> 12399

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ggatgtgcac aaaaaccggt ggatcgaaga gtggaacgcc ggccgcgaga acctcgagtt 120  
 caatttcgcg tggacccgcc gcagcctcgc cgtcgtcggc ctcttcggcc tcgctgtccc 180  
 catcctcgtc tacaagggca tcgtccgcga attccatatg caggacgagg atgcaggccg 240  
 gccatacagg aagttcctgt aagcggcgtc cagggccgca ggagacgtcg atccctcgac 300  
 cggggctgcg aggaggggag tttccattca gtttgtgtcg gtattgtttt agtctgaatc 360  
 tgatggagca gtttggaatg ctgaactatt gtgcctgata caaaatg 407

<210> 12400

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-A5

<400> 12400

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 tcttgtcaca acttacgcag gtggtattag aaagggtttt gttatagtct cagctctcct 180  
 tgtaactgca ctgtacaat tcgggtatga tgggaagcca ccatcactct actgcctgat 240  
 ggcattacca cttgttgcca caagcatatt catctaccat aagtatccat atgtggataa 300  
 gaagaagaaa gtctgatgca cataattgtc agagatggga agtatcatca gcatgatgta 360  
 atgctaacct tattttgtcc ac 382

<210> 12401

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-012-Q1-K1-A7

<400> 12401

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 tatacgggct ctacaagcaa gccacggttg gagatgtgaa tcccaatcgt ccggccatat 180

tctacaaaaa ggacagggcc aagtgggatg cctggaaggc tgttgaaggc aaatcgaagg 240  
 atgagggcgat gaatgactac atcaccaagg tgaagcagct ccaggaggaa gctgccgcct 300  
 cttaaaagtc tcttaatagt gttgccaaac agctatttgt cagatgagct ttgtgccatt 360  
 tcctcattag aagtatatca ttcgatccat tggggatctg tgaaccatgt nacctgttat 420  
 gtaact 426

<210> 12402  
 <211> 408  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-B10

<400> 12402

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 acgacttcgt cttcaaatct ggcaaaaatg tccttattga attctatgcc ccctgggtgcg 180  
 gacactgcaa gaagctggcg cccatcttgg acgaggcagc caccactctc cagagcgacg 240  
 aggaagtcgt gattgctaag atggacgcga ctgccaatga cgttcccagt gagtttgacg 300  
 tccaaggcta cccgaccttg tacttcgtga ccccgagcgg gaaggtgaca tcctacgaca 360  
 gcggcaggac ggcggacgac atcgtcgact tcatcaagaa gagcaagg 408

<210> 12403  
 <211> 390  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-B11

<400> 12403

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 tccgtcgccg gcgaggctcc gaccaccggg gagcaccgga tggggactac catcgtcggg 180  
 gtctgctacg aaggcggcgt cgtcctgggc gccgattcca ggaccagcac tggaatgtat 240  
 gtagccaacc gtgcttcaga caagattact caactgacag acaatgtgta tgtctgtcgc 300

tctggatctg ctgctgatac acaagtcatt tcggattatg tacgctatatt ccttcaccaa 360  
cacacaatcc agcttggaca accagctacc 390

<210> 12404

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-012-Q1-K1-B12

<400> 12404

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gcttgccgca ttatcactga ccgaaggcat tatgtcctaa cttgaaggcc ataacaaact 120  
atcttcagtt tccaactcag tgcgggtggt tccagagggt gtctggcaca tgacagtatt 180  
gttccttcga tactatggtt ggacttgtga atgttgtttc catactggat gttagggttt 240  
atctgcgcc tacggtgacc tgccgttaag gcaaagaact tatttgcaag tctgagcact 300  
atcttggtggg gtgggtggg ggggtgctt gttntataa ctgtctttt tncctagtt 360  
ggaagttttc ttactcaatt gaatgaacca gggaacttat tgcatactat caaatgggtt 420

<210> 12405

<211> 170

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-B5

<400> 12405

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gcggcgacta cgcccatat tgtaccacgt gacgagagaa ctctcttcgt gactttctcc 120  
aacggatacc ccttcaccgc ggatgaactg tacgaattct ttatggggaa 170

<210> 12406

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-B8

<400> 12406

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tatgtctctt ggtctttctg caagtgtgc taccgcgacc attttcccgc aatgctcaca 120  
agctcctata gttcccttc tcccccgta cctctcacca gcggtgtctt cggatatgtga 180  
aaaccaatt cttcaaccct ataggatcca acaggcaatc gcagctggca tcttaccttt 240  
atcaccttg ttctccaac aatcatcagc cctattacag cagttacctt tgggtgcattt 300  
attgccacaa aacatcag 318

<210> 12407

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-C10

<400> 12407

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cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaattata 180  
gcttcaatat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgcagca 240  
agcaacatac ctttatcgcc cttgttggtt caacaatcgc cagccctatc tttggtgcag 300  
tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc tctgatcaac 360  
caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac 420  
caactgtcta cac 433

<210> 12408

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-C12

<400> 12408

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gcaagccggg cttgcttctt gacacaacaa cagttgctgc cgttctacca gcagtttgcg 120  
gctaaccccg caaccctctt acaactacaa caattgttgc cctttgtcca acttgctttg 180



acaaaccag cagcctccta ccaacaacac atcattgggtg gtgccctctt ttagattgct 240  
 tattagatgt aattcaataa taaagttttt tggatgatgt atgtggccaa ccagaaataa 300  
 aaagttacat ttccagattc taaaaaaaaa aaaaataaaa aaaaaataaa taaaaaaaaa 360  
 aaaaaaaaaa atataataaa aaataaaaat aaattaatat aaaaattata aaattttttt 420  
 ttttt 425

<210> 12409  
 <211> 342  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-012-Q1-K1-A4  
 <400> 12409

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 gccactgga aacgggttgt aagtaaatcg tatgtgaatg gcatgggaat tgactgggtcc 120  
 aaagtgagaa atgtcatgga catgagagct gtctatggag gttttgctgc agctctgagg 180  
 gacaaaagg tctgtgtcat gaatatcgtg ccgatcgatt caacagacac gctgcccac 240  
 atctacgac gcggattgtt tgacatgtac catgactggg gcaagtcttt cagcacttac 300  
 ccaaaaactt atgaccttct gaactcggac catctgttct ca 342

<210> 12410  
 <211> 408  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-011-Q1-K1-H10  
 <400> 12410

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 acatcccgca tacgtgctaa gatgctgtac tccacgtcga aggaccgcat caagtacgag 180  
 cttgacgggt tccactacga aatccaggct accgacccat cggagggtgga catcgagggt 240  
 ctccggaagc gggctcactg aagctgggtc tccttttgaa gggacctgtg aagggccgtg 300  
 aaccttcagc cagatgcaaa ttcaattatc aacgatgaag ctcccgccgt ggtgtttgtt 360

aataagttcc tgtaagcata tcatttagtc gctatgcatg acactagc

408

<210> 12411

<211> 165

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-H11

<400> 12411

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tatgatgtaa ttccttgta tctgccaaatt atgtatggac tatggacatg tgttgcgctg 120

ttcaacttac tactacaaat aagtaatcga taatgttccc ttccc 165

<210> 12412

<211> 417

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-011-Q1-K1-H12

<400> 12412

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ctgcgaacga acacacttac cagtataact atgccgaggt tggcgagatt gcaccaaacc 180

ccaaaaggag caagacgaat catgggcaca aggtccactc atccaaagcc tacaatgcca 240

aggttttcgag agcaatgcct tctgacattg gcgtcaggaa ccagtggcca ggtaaagcta 300

cgtaccaaga tgatagtga gagacggaag aagatggagg caacaacatt gaagatgggt 360

ggagatatgg caacaatgat gacgatgagg aaacaccaga tgaagattga cctttat 417

<210> 12413

<211> 234

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-011-Q1-K1-H2

<400> 12413

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 aaaaaaaaaa aaaaaagaaa aatttcgaaa attataaaaa ccaagaaaac caaaacaaac 120  
 aaaaaaaaaac cacccaaaca aaaccaaaca accacctata aaaaaaccaa aacaaaaaaaa 180  
 attaaaaaaaa acccacataa aaaaaaaaact gcccttccca aaaccaaacc cccc 234

<210> 12414  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-H3

<400> 12414

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 cgccgtcctg ctctccgtgc tcgcggctgc cagcgcacgc gccgggacct cctgcgtgcc 180  
 ggggtggggc atcccgcaaca acccgctccc gagctgccgc tggtagctga ccagccggac 240  
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 ggcggacatc ccggcgctact gccggtgcac ggcgctgagc atcctcatgg acggcgcgat 360  
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 ggaggtgcag aggggatt 438

<210> 12415  
 <211> 439  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-H5

<400> 12415

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 gaattcgaag gggctgtcat tgcactgttc catctgttga ttacgagaac cgataaagtc 180  
 cgtgctcttc gtgaggcttt ctaccgccag aaccttccaa atgtgaccaa tttgcttgcc 240  
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agatcaaaga atgctcgtgg ccagcaaggc tcatatccaa ttaagctgtt ctacacttca 360  
aacatgcccc tcattcttca ctctgcgctg attaccaacc tctattttat atcccagctt 420  
ctctacagga agtacagtg 439

<210> 12416  
<211> 430  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-011-Q1-K1-H6  
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tgttcccttc tttaacccct tggtcttttc tcaatgggtg ctaacccaaa aattttcctt 120  
aaaggtcaca agaatctcat atagttccct tttttcccat atacctcaca taaatgatct 180  
ctacagtttg aaaaccccc tctcttcagc cctataggct ccaacaagca atcgcagcaa 240  
gcaacatacc ttatcaccc ttgttggttc aacaatcgcc agccctatct ttggtgcagt 300  
cattggtaca aaccatcagg gcacagcagc tgcagcaact cgtgctacct gtgatcaacc 360  
aagtagctct ggcaaacctt tctccctact ctcagcaaca acaatttctt ccattcaacc 420  
aactgtctac 430

<210> 12417  
<211> 380  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-011-Q1-K1-H7  
<400> 12417

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aagctcgccc gctacaacaa gaagcccacc ataacctccc gggagatcca gacttcggtg 180  
cgctcgtcc ttcttgccga gctcgccaag cacgccgtct ccgagggcac caaggccgtt 240  
accaagttta ctctctctta gatcgccgcc gcacggagcg acggctctgt ttcgtttcct 300

cgtactttta ggccagtgt aataggttgc tcgaggaaca atgtagtggtg gaaatttcta 360  
 atatattcca aattgtgctg 380

<210> 12418  
 <211> 443  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-011-Q1-K1-H8  
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 gggaacatac tttcaagtcc aggatgacta tctggattgt tatggtgatc ctgaatttat 180  
 cggcaagatt ggaacggaca ttgaagatta caagtgtca tggctagttg tgcaagccct 240  
 tgagcgtgct gatgagagcc aaaagcgcac tctatttgaa aattatggca agaaagatcc 300  
 agcctgtgtg gcaaaagtga agaacctcta caaagaactt gacctagagg cgggtatttca 360  
 ggagtacgag aatgagagct acaagaagct gattgcagac attgaagccc agccaagcat 420  
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<210> 12419  
 <211> 391  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-011-Q1-K1-H9  
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 aagcatcagg gcacaacaac tacaacaact tgtgctagca aaccttgctg cctactctca 120  
 gcaacagcag tttcttccat tcaaccaact agctgcattg aactctgctt cttatttgca 180  
 acaacaacaa ctaccattca gccagctacc tgctgcctac cccagcaat ttcttccatt 240  
 caaccaactg gcagcattga actctctgc ttatttacag cagcaacaac tactaccatt 300  
 cagccagcta gctgggtgtga gccctgctac cttcttgata caaccacagt tggtgccgtt 360  
 ctaccagcac gctgcgccta acgcttgcac c 391

<210> 12420  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-012-Q1-K1-A1  
  
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 tgccatgatg cattaccact tgttgcgaca agcatattca tctaccataa gtatccatat 300  
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<210> 12421  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-012-Q1-K1-A10  
  
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 tgtgagcgca acacatgcgt tcattattcc acaatgctca cttgctccta gtgccatcat 180  
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 catgcaacaa caagcgcttg cggcgagcgt cttacaacaa ccaattgcc aattgcaaca 300  
 acaatccttg ccacatctaa caatacaagc catcacaacg caacagcaac aacagttcct 360  
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<210> 12422  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-012-Q1-K1-A11

<400> 12422

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cacagtgtc acttgctcct agtgccagta ttccacagtt cctcccacca gttacttcaa 180

tgggcttcga acatccagcc gtgcaagcct acaggctaca actagcgctt ggggagagcg 240

ccttacaaca accaattgcc caattgcaac aacaatcctt ggcacatcta accctacaaa 300

ccattgcaac gcaacaacaa caacaacagt ttctgccatc actgagccac ctagccgtgg 360

tgaaccctgt cacctacttg caacagcagc tgcttgcac ccaaccactt gctctggcga 420

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<212> DNA

<213> Zea mays

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<400> 12423

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caaccacaag gcttgcctt cgcaaggggc gaggggagga acggatctgt aaagtaataa 120

gctctccctg ccttgcgtgaa gccgaagcaa ggtttcagtt agcttctgaa ggtattgcag 180

atgttaagga ttgagaccat acctgcttta caggcatctt cagatccatt ggtctgctat 240

ttgctttgtc attccttggg ccaactttcg tgttacctca ccttgatgta caaaacgggt 300

tcgttcacat atgtgaatgc acgcctgtta ctgatttaag cgtcctgttg taaataaaac 360

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aaa 423

<210> 12424

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-011-Q1-K1-H1

<400> 12424

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 agggctccac cttccaccgc gtcattcccc agttcatgtg ccagggcggc gacttcaccc 180  
 gcggcaacgg caccgcggc gagtccatct acggcgagaa gttccccgac gagaagtctg 240  
 tgcgcaagca caccncccc ggtgtgctct ccatggccaa cgccggggcc aacaccaacg 300  
 gctcccagtt cttcatctgc accgtcgga ccccttggt cgacggcaag cacgtcgtct 360  
 tcggccaggt cgtcgagggc atggacgtcg tcaaggccat cgagaagggt ggcacccgca 420  
 acggc 425

<210> 12425  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 12425

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 ggcgtagagg ctccaggagg aggagggagg cgcagcagg cggtggggg agatgttct 180  
 ctgggactgg ttctacggg tgetggcctc cctcggcctg tggcagaagg aggccaagat 240  
 cctcttctt ggctcgaca acgcggcaa gaccacgtg ctccacatgc tcaaggacga 300  
 gcggttggtg cagcaccagc cgacgcagca cccgacgtg gaggagctca gcatcggcaa 360  
 gatcaagttc aaggcgttc acctcggcgg ccaccagatc gcgcgccgc tgtggaagga 420  
 ttactacgca naggttgatg ctgt 444

<210> 12426  
 <211> 445  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-011-Q1-K1-F4  
 <400> 12426



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tatcccgctt tgcgcttctt gccctttttg tgagtgaac aaatgcgttc attattccac 120  
aatgctcact tgctccgagt gccattatc cacagttcct cctccagtt acttcaatgg 180  
gcttcgaaca ccagctgtg caagcctata ggctacaaca agcgcttgcg gcgagcgtct 240  
tagaacaacc aattgcccc aaacaacaac aatccttggc acatctaacc atacaaacca 300  
tcgcaacgca gcagcaacaa gcactgagcc acctagccgt ggtgaaccct atcgccctact 360  
tgcaacaaca gctgcttgca tccaaccac ttgctttggc aaacgtagct gcataccaac 420  
aacaacaaca gttgcaacag tttct 445

<210> 12427  
<211> 444  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-011-Q1-K1-F8  
<400> 12427

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atgatgggcg ccggcgggct gtaccctac gcggagtacc tgaggcagcc gcagtgcagc 180  
ccgctggcgg cggcgcccta ctacgccggg tgtgggcaga cgagcgccat gtaccagccg 240  
ctccggcaac agtgctgcca gcagcagatg aggatgatgg acgtgcagtc cgtcgcgcag 300  
cagctgcaga tgatgatgca gcttgagcgt gccgctgccg ccagcagcag cctgtacgag 360  
ccagctctga tgcagcagca gcagcagctg ttggcagctc agggctctca ccccatggcc 420  
atgatgatgg ccagaacat gccg 444

<210> 12428  
<211> 418  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-011-Q1-K1-F9  
<400> 12428

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 ctctcaacca tcggagccgt gtgggcgacg gcggtgggcg cgtcgggtggc gtacagccgg 180  
 cggcgggcg cggcgcgggc gacgggcatg cgcctcatcc acgccaggat gcacgcgcag 240  
 gcgctcacgc tcgccgtcct cgggggagcc gcgctcgcg accactacca cggcaagagc 300  
 accaacgccg ggaagaggca gcagcaggag gacctggact acggcttcta ctgcagctg 360  
 ccgccggcca ccgacgccga cggcaacgag aacgagcgct ggagctggta gagcatgc 418

<210> 12429

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-G10

<400> 12429

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 ttttcttaca aacatatctc ctttctttaa acatcaacta ttacttacat tttacctcac 120  
 aatttcactc aaccattaac accttatccc tcaaactaca atttctacca ttatcatcca 180  
 ccctatttaa taaacaatat aatctttata ctacaacaac tatttcataa tatcaaacca 240  
 tacttctatt tactaatat 259

<210> 12430

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-G11

<400> 12430

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 ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc cgcacaaccc 180  
 gctcccagc tgccgctggt acgtgaccag ccggacctgc ggcacgggc cgcgcctccc 240  
 gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300  
 gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccgggcccg acgcgcagct 360

<210> 12431  
 <211> 450  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-G2

<400> 12431

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 gagcaggagg accccagcgc ggcgtctgca gcccagctc cggcggctgt ggctagggcg 120  
 agggcggcgc ggctccgag gccaaggagc cgcaaggggc tcggcgtgcy gcacctgctg 180  
 aagccctgcc gattccttgc agctgtccag agggcgaatg ccagggtgag ggaagcgggg 240  
 gaggcgaccc tcgtggcagc gcttgccggc gcccacaaag agagcgagag ggagaacgag 300  
 gtggtggccg atgtatgcgg cgggtggaag agtgaggatg gaagtttaaa ttgtggatac 360  
 tcaagcatta gaggcagaag ggtaaacaatg gaagacttct atgacataaa atcttctaga 420  
 gttgatgata agcaaataaa tttttttgga 450

<210> 12432  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-G3

<400> 12432

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 gctgtccccg ccgacgaaga agagatctgc ggtgccactt tcaagggtgtt ggaaggggtct 180  
 actgtcctga cggcgtgca ctgatctatc atcatcaggc ggaggcgatg cgatgatgat 240  
 gcagaacttt gtacatgcgt tgggtggatgg tgggtgtaaca tagtggctgc caacaagtca 300  
 tgctcatgca aaccgatgaa tctatctctg tatcatcgat ctcggttgct tgctagtcca 360  
 gactccagac atggctatat atatatagct ggtgctaata aataggagta taatcgatcat 420  
 atcgatcggg tgcgtgtgga atg 443

<210> 12433

<211> 444  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-011-Q1-K1-G4  
  
 <400> 12433  
  
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 gtgggatgat ccccgcttgt tgacactggc tggactccgg cggcggggag tatcatcaac 120  
 cgcaataaat tcctttatcc gtggaatcgg gataacaaga agtgacaaca gcttaattcg 180  
 tgttgatcgt ctagaatacc acatcagga agagcttaac aaaacagccc ctogaaccat 240  
 ggttggtttg cgtcctctaa aggtggtaat aactaacttg gaagaaggaa aagtactaga 300  
 ccttgatggg aaaatgtggc cagatgcttc tgatactgat gcttcctctc actataagct 360  
 tccgttctca agaactgtct acattgagaa aactgatttt cgccttaagg actcaaaaga 420  
 ctactatggg ctggcccctg gtaa 444

<210> 12434  
 <211> 180  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-011-Q1-K1-G5  
  
 <400> 12434  
  
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 aaaaattaaa aaaaataaat acattcataa aataacaaaa aatacaaaaa aatacattca 120  
 tatataatat ctacttaa ataaatctca ttaaacttaa atctttttca accttacttt 180

<210> 12435  
 <211> 399  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-011-Q1-K1-G9  
  
 <400> 12435  
  
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 tgggtcctgg tagacttgac aggaaaattg agttccctct gccagaccgg cgtcagaaga 120

ggcttgtttt tcaagtttgc actgccaaaa tgaacctcat cgctcaggtt ctttttggca 180  
 gtgcaaactt gaacctgagc gatgaggttg atttgggaaga ttatgtttcc agaccggata 240  
 agatcagtgc tgctgatatt gctgctatct gccaaagaggc tggcatgcat gctgtccgca 300  
 aaaaccgata tgtcatcctc cccaaggact ttgaaaaggg ctaccgaacc aacgtgaaga 360  
 agcccgagac agactttgat ttctacaaat gagtcaacc 399

<210> 12436

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-F12

<400> 12436

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 cttcgccacc gccttaagca aggagtccat cgtcgacgtt gagggcgctcg tgtccctccc 180  
 caaggagccc ctcaaggcca ccacgcagca agttgagatt caagtcagga agatctattg 240  
 catcaatagg gctatcccaa ccttccaat taaccttgaa gatgcagctc ggagtgaggc 300  
 agattttgag aaggctgaac tggctggaga aaagcttggt cgtgttggtc aagatacccg 360  
 cttgaactac agagctattg atctacgaac accc 394

<210> 12437

<211> 219

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-E10

<400> 12437

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 atctctccca aattccatat acattacaca ataataccaa taccatcaat aatatcactt 180  
 taaaccaact ccatcacaac tccaaacact aatccctct 219

<210> 12438

<211> 416  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-011-Q1-K1-E11  
  
 <400> 12438  
  
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 gggacttggga agatctccca atgatgcttc tgcagcaggt tgccagccaa gtaatccact 120  
 ggctccacga tgaagcgggtg gtccttggga tgaacgcgac aatagatttc ctgtgcctgt 180  
 acttggacct tgaccaaggt gaaacactag gcctgggtggc acacgttgac ccggatgaca 240  
 cctacggctg cgtctcatgg tacctcactc ttgatcatca cccaacggag gaagggaaga 300  
 tgtcagcggg tagtccggag ctagaggagc gcaggttttt ggggtacctt tccccggaat 360  
 tgctttactc taccctgatg gacctggtaa aactgtgcag cacagggtgc caacgc 416

<210> 12439  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-011-Q1-K1-E12  
  
 <400> 12439  
  
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 gagcccgtg ccgcgaaggc cccggcgggg aagaagcca aggccgagaa gcgcctcccg 180  
 gcggccaagt cgtccggcaa agaaggcggc gacaagaagg gtaagaagaa ggcaagaag 240  
 tcggtggaga cctacaagat ctacatcttc aagggtgctga agcagggtcca cccggacatc 300  
 ggcatctctt ccaaggccat gtccatcatg aactccttca tcaacgacat cttcgagaag 360  
 ctgcgccggc aggtcgccaa gcttgccgcg tacaacaaga agcccacat tacctctcgg 420  
 gag 423

<210> 12440  
 <211> 446  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-E2

<400> 12440

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actactggac agtagatgca cgtgttgaca aacttgtcaa gttgcgaggt gaactgaatc 120  
cactgcagga tgcttctggt ggaaagaaaa tatctatcaa tgatcttgtc atcaaggctg 180  
cagctttggc tcttagaaaag gtccctcagt gtaacagctc atggatgaat gattttattc 240  
gccaatatca caatgtgaac atcaacgtgg ctgtgcagac tgaacacgga ttgtttgttc 300  
cagtaattag ggatgcagac aagaaggac ttggtacaat tgctgaggaa gtgaagcagt 360  
tggtcaaaa agcaagagac aatagcttaa aaccagcaga ttatgagggt ggcaccttca 420  
cggtatcaaa cttgggaggt cccttc 446

<210> 12441

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-E3

<400> 12441

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tcgttaccaa gattgatagg cgatccggca aggagctgga gaaggagccc aaatttctca 180  
agaacggtga tgctggtatg gtgaagatgg ttcccactaa gcccatggtg gtggagacct 240  
tttctcagta tctcctctt ggctgatttg ctgtccgtga catgaggcaa acggtggctg 300  
tcggagtcac caagagtgtg gagaagaacg acccaactgg agccaagggtg acgaaggctg 360  
ctgccaagaa gaaatgatct atctgtctgg tgctgtgctt gcttgttggt tacctcgtgg 420  
aagcttaaaa tatctcgtct tg 442

<210> 12442

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-E4

<400> 12442

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agcggcggcc cctgctcccg aggcgcgcgt cgagtgagtc cagccagcgc cggacggcgg 120

ccgatctagc tcgctgcgtc agcctgtcac ctggcgctgcg ccgcgctggg gccactgcca 180

cggcaacagc acggcatggc gccggcatag gtcgctagga aaaacctgct tttgtgttcg 240

ggttcacgtc gtgtcctacg tggcgcgggc ggccccgcct agtaaaggag cgtaggagcg 300

tcgttttctg ttgtggctga ataaataatg tgtctgtgtg c 341

<210> 12443

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-011-Q1-K1-E6

<400> 12443

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ggttccccgac gttcgccagc tacggcgacc cctacatcta cagcacgccg tcgatggagt 180

tccccggggct gatcaagatc gccatgcacg ggcggccgcc gtgcgaccgg gacggcaggg 240

actggtccac gggcgcgggc gacctggtgg agccggtggc ccggtggatc gacgccgtca 300

tgccggggcca cgtcgacacc gccggcgggc ccgtcgctcg ccagtgtctg atgtactcgg 360

tgacccccga cgacgactac gtcgtcgact tcctcggcgg ngagtctggg aaggacgtcg 420

tcatcg 426

<210> 12444

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-E7

<400> 12444

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ctggtcaaca ttgctcgggg acgcctgctg gactacaagg ctgtgtttga tcacctggaa 120



tcgggccatc tagctggtct ggggattgat gttgcttgga tggagccatt tgatcctgag 180  
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tattcctaca gaactatggc aaagtctgtt ggtgacaccg cccttcagct tcatttaggc 300  
gaggcggttc cggaggtaga gttcgtcaac taaaaaacccg tccaggcggc agccgtagac 360  
gcatgccatt cgtgggctat cggaaccgct gatgcatca tttgtagaga ataatggatc 420  
cgcgacttgt aagaataaac 440

<210> 12445

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-E8

<400> 12445

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ttgtcgggtg acatgtgtgg ttccaagaac atgtcgtatg acagtgccaa tctgacgacg 180  
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caaaaggctg agatacaggc cctcagttcc ttcgggttcc agtacctcac cgaggtctac 420  
ctgcctctta agttgc 436

<210> 12446

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-E9

<400> 12446

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tccacaaggt tactcagtac aagaagggtg aggatagcct gtctgccag ggaaagcgcc 180

gttatgaccg caagcagtca ggatatggtg gccagaccaa gcctgtcttc cacaagaagg 240  
ccaagaccac caagaaaatc gtgttgaagc tgcagtgcc aagctgcaag cactactcac 300  
agcacgcaat taagaggtgc aagcattttg agattggtgg agacaagaag ggcaagggaa 360  
catctctctt ctaagtttct catcgcccat ctcgatgttg gatcgaagct atgggtctac 420  
tactgttcta aaa 433

<210> 12447  
<211> 448  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-F1

<400> 12447

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actcggggcc gccgctccag cccgtggcgc ctacctcgcc gccgtcgggtg tcgcggtcct 120  
cctcgtcgcc tccttctctc cagtagccga gtcgtcctgc gtgcgagata actcattggt 180  
gagagacata agccaaatgc cgcaaagcag ctatgggatt gaaggattgt cacatataac 240  
agttgctggt gcgctcaatc atgggatgaa ggaggtggaa gtgtggcttc agacaataag 300  
tccaggtcaa aggacgcaa tccacaggca ttcctgtgaa gaagttttca ctgtcctcaa 360  
aggggaagggt acgctcttga tgggatcaag ctactaaag taccagggc agccacagga 420  
aattcctttc tttcagaata ccacattt 448

<210> 12448  
<211> 406  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-F11

<400> 12448

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gggcggggtc atgaaggcca ccaaggccgt ggccatgttc caggcgctcg ccgtcaagag 180  
aggcgccgtc ctcaaggaca ggactgaggt ggtggacatc acctcctcca agcgaggtga 240

aggagagggg tcaatcatct cggtagggac gtccagcggc gaggagttcc acggcacgaa 300  
atgcatagtg acagtgggcg catggacgag caagctgac aagtcgggta ccggcctgga 360  
gctgccggtg cagccggtgc acacgctcat ctgctactgg aaggtg 406

<210> 12449

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-B4

<400> 12449

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tgcgctccttc tttgtcagcc gaggggacac ccttattgac aaaatgcttg acaagattgg 120  
aacacctgag gcccttgccct tgagaggaaa ggctgcagta gcacaggcca aactagcaaa 180  
tcggctctac cagaagaaat tctctggccc aaggtgggag gcgttggcca agaaaggtgc 240  
caagaaacaa aggttgttgt gggcatccac cgggtgtcaag aaccagctt atcctgacac 300  
tctggatgtg gacagtctca tctgacctga cacgttcaac acgatgcccg accaagcttt 360  
gcaagcattt catag 375

<210> 12450

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-E5

<400> 12450

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tcaagggtat ggctgatcgt atcattggaa tgcgtaattc acttaaggat aaatcttaat 180  
agctagggtc acctttgtta tggatcata tatttaatta ttattgtatt gttctttttt 240  
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<210> 12451

<211> 440

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-005-Q1-K1-A6  
  
 <400> 12451  
  
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 tgaaacagag tatggttagga tgaacatagg aagcaggcca tccaagagaa agccgagcgg 240  
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 cctcccggtc tggctaggat ttggagccgc attcaagaat gtcctccaga aggacatcag 360  
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 <213> Zea mays  
  
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 ccatgtcgcg ctgcgcccc acctctccaa ggagatcatg gactcgacca aggctgcggc 180  
 ggagctggtg aagctgaacc ctggcagcga atacgcaccg gggctggagg acaccctcat 240  
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 atcttttttc tcctctgat cattggctct aggtccttcg tattttcgcg gattgtaact 360  
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 <211> 337  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-G6

<400> 12453

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caaaaagcca gaaatagagg gtatcggtat aatgttctaa tagtatactc catcacaaaa 120

aatgtgcact tctatttaca ttgctttaag tcaaacaatc ttcggtttta ccaacttttt 180

tactacaaat atataaaagt tatatgatac caaataagta ccattagggt catcatagaa 240

tatagttcca tcgtatactt atttgtaata ttaagtgttg atattatttt gacaaactta 300

gtcaaactta aaatagttat acttgcacca gatctag 337

<210> 12454

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-040-Q1-K1-C12

<400> 12454

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cataccacaa gtcttcttca caagtttagg agtgacagca acaagagatc tcgatggcct 180

ctgccaccgt gctcaagtcc tccttcttcc ccaagaagtc cgaatggggc gccaccaggc 240

aggccgcccgc gccaggccgc cccaccgtct ccatggtcgt ccgcgccttc gnctacgccg 300

atgagctcgt gaagaccgcg aaaacgatcg cgtcgccggg gcgngcatc ctggcgatgg 360

acgagtcgaa cgcgacgtgc gggaagcggc tggcgtccat cgggctggag aacac 415

<210> 12455

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-F4

<400> 12455

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 tcagtcatac gcaaagaaca tgggacttta tggacaaaga gcaggatgcc tgagtatttt 300  
 gtgtgaggat gagatgcaag cagttgctgt caagagccaa ctgcaacaga tcgcaagacc 360  
 aatgtacagc aaccacctg ttcattggtgc actggttgtt tctataatcc tcagtgatcc 420  
 agaattg 427

<210> 12456  
 <211> 139  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-012-Q1-K1-F6  
 <400> 12456

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 caaaagtgtt gcattttgc 139

<210> 12457  
 <211> 331  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-002-Q1-K2-D11  
 <400> 12457

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 atcggaaggc ttgtggccat tgtggccctg cacagctacg acgtcgagct cgtagccgtg 180  
 aacgaccctt tcatcagcac ctattacatg acctacatgt tcaagtatga cactgtgcac 240  
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 aaagaggctg ctgtgtttga ctgcacgaac c 331

<210> 12458  
<211> 218  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-G1

<400> 12458

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gatgtcgagc tcgtcgccgt caacgacccc ttcataacca cggattacat gacctacatg 120  
ttcaagtact acaccttgca cggccaatgt atgcacagct acatcacctt caaggactcc 180  
aagtctcttc tcttctgcga gaatctcttc actgtctt 218

<210> 12459  
<211> 418  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-G11

<400> 12459

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cagcaccgat tacatgacct acatgttcaa gtatgacact gtgcacggac agtgggaagca 180  
ccatgagggtc aagggtgaagg actccaagac ccttctcttt ggtgagaagg aggttgctgt 240  
gtttggctgc aggaaccctg aggagatccc atgggggttc gttggcgctg aatatgttgt 300  
tgagtctact ggtgttttca ctgaccagga gaaggctgca gctcacttga aggggtggtgc 360  
caagaagggt gtcatttctg ctcttagcaa ggatgcccc atgttcgttg ttggtgtc 418

<210> 12460  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-D10

<400> 12460

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tcggaaggct ggtggccagg gtggccctgc agagcgacga cgtcgagctc gtcgccgtga 180  
acgacccctt catcagcacc gattacatga cctacatggt caagtatgac actgtgcacg 240  
gacagtggaa gcaccatgag gtcaagggtga aggactccaa gacccttctc tttggtgaga 300  
aggaggttgc tgtgtttggc tgcaggaacc ctgaggagat cccatgggggt tcggttggcg 360  
cttgaatatg ttgttgagtc tactggtggt ttcactgacc aggagaaggc tgcagctcac 420  
ttgaggttgg tgcca 435

<210> 12461

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-E12

<400> 12461

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tgtagcagcc tctcaccctc atggccaaga tcaagatcgg gatcaatggg tttggcagga 120  
tcggaaggct ggtggccagg gtggccctgc agagcgacga cgtcgagctc gtcgccgtga 180  
acgacccctt catcagcacc gattacatga cctacatggt caagtatgac actgtgcacg 240  
gacagtggaa gcaccatgag gtcaagggtga aggactccaa gacccttctc tttggtgaga 300  
aagaagttgc tgtgtttggc tgcaggaacc ctgaggagat cccatgggggt tcggttggcg 360  
ctgaatatgc ttgtgagtct actggtgttt tc 392

<210> 12462

<211> 395

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-048-Q1-K1-D4

<400> 12462

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tctggcaggc tctcaccctc atggccaaga tcaagatcgg gatcaatggg tttggcagga 120  
tcggaaggct ggtggccagg gtggccctgc agagcgacga cgtcgagctc gtcgccgtga 180



acgacccctt catcagcacc gattacatga cctacatgtt caagtatgac actgtgcacg 240  
gacagtggaa gcaccatgag gtcaaggtga aggactccaa gacccttctc tttggtgaga 300  
aagangttgc tgtgtttggc tgcaggaacc cctgaggaga tcccatgggg ttcggttggc 360  
gctgaatatg ttggtgagtc tactgggtgtt ttcac 395

<210> 12463

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-E5

<400> 12463

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aacgacccct tcattcaccac ggattacatg acctacatgt tcaagtacga caccgtgcac 120  
ggccaatgga agcacagcga catcaccctc aaggactcca agacgcttct cttcggcgag 180  
aagccggtca ccgtcttttg catcaggaac cccgaggaga tcccgtgggg tgaggctggt 240  
gctgagtatg tcgtggagtc caccggtgtc ttcactgaca aggacaaggc tgctgcacat 300  
ctgaaggggtg gtgccaagaa ggttggttctc tctgccccaa gcaaagatgc acccatgttt 360  
gttggttggtg tcaatgagga caagtacacc ttcgatgtta acattgtttc caatgctagc 420  
tgcaccac 428

<210> 12464

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-A12

<400> 12464

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cagggatgat gtgggaaagt tcattcccgt ctatcttgct cagggcattc tccaacatga 120  
ccccctcgag gtcttgacc agaggggagt gggcgagctg gtgaagcttg ctacagagag 180  
gggccgcaaa gctaggccta acttgaaggt gggcatttgt ggagaacacg gtggagagcc 240  
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ggttccgatt gctaggctag ctgcagctca ggtgcttgct tgaggctgcc tcttcattgg 360  
 caaccggatt gcctgctgct ggtggatgtg gtgatcaaca gtattattac agagccatgc 420  
 tatgtgaaca ttac 434

<210> 12465

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-F6

<400> 12465

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 ggggtacaaag ttggaacaat gattgagatc cccagggcag ctctggtggc tgatgagata 120  
 gcggagcagg ctgaattctt ctcttcgga acgaacgacc tgacgcagat gacctttggg 180  
 tacagcaggg atgatgtggg aaagttcatt cccgtctatc ttgctcaggg catcctccaa 240  
 catgaccctc tcgaggtcct ggaccagagg ggagtgggag agctggtgaa gtttgctaca 300  
 gagagggggc gcaaagctag gcctaacttg aagggtgggca tttgtggaga acacgggtgga 360  
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 tt 422

<210> 12466

<211> 108

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-F2

<400> 12466

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<210> 12467

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-G11

<400> 12467

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gctaggttct cgaccagaga tgaatgggcc agctgggttaa gcttgctaca gacaggggct 120

agcaaagcta ggcctaactt gaacgtggac attggtggag aacatggtgg agagcctcaa 180

tcggtagctt tattcgccaa gactgggctg gattacgttg ctgctccct tatcagggtc 240

ccgatcgcta tgctagctgc atatcatgtg ccagtctgag ggtgcctctg ttaggtcgca 300

gccggatcac ctgctgggtgc tacatgtgat gaatcatgat actactatga cagagccatg 360

ctactgtgag agcatcagta gc 382

<210> 12468

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-F4

<400> 12468

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gttcctacca gaagggaaacg tcgaggaaat cgtgcgtgaa ctgtgttctg agacgggagc 120

caaccaggag gatgccctcg cacggatcga aaagctttcg gaagtaaacc cgatgcttgg 180

cttccgtggc tgcaggcttg gtatatcgta ccctgagcta acataaatgc aagcccgtgc 240

catctttgaa gctgctatag cgatgaccaa ccatggcttt caagtctttt caggggggaa 300

tggt 304

<210> 12469

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-D10

<400> 12469

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attgagattc ccagggcagc tctagtggct gacgagatcg cggagcaggc tgaattcttc 120

tccttttgaa cgaacgacct cacgcagatg acctttggct acagcagga tgatgtgggg 180

aagttcatcc ccatttatct ggctcagggc atcctccagc atgacccctt cgaggttctc 240  
gaccagagag gagtgggcga gctgggtaag cttgctacag agaggggccc caaagctagg 300  
cctaacttga aggtgggcat ttgtggagaa catgggtggag agccttcata gggttgccttc 360  
ttcgccaaga ctgggctgga ttacgtttct tgctccctt tcaagggtccc gatcgct 417

<210> 12470

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-A4

<400> 12470

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gatgtctgat cttaagaaac aactcgaaga tgctcggta aaaggcattg atgttagggc 120  
cttggtggtt atcaatccag gaaatccgac tgggcagggt cttgctgaag acaaccaata 180  
tgatatagtg aaattctgta aaaatgaggg ccttgttctt ctagctgatg aggtatatca 240  
agagaacatc tatgttgaca acaagaaatt taactctttc aagaagattg caagatccat 300  
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<210> 12471

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-G1

<400> 12471

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tgtggacaac aagaaattta actctttcaa gaagattgta agatccatgg ggtatggcga 180  
ggatgatctc cctctagtat cgttacagtc tgtttccaaa ggatactatg gagagtgtgg 240  
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caagatagct tcagtgaacc tatgctcaa tatcactggc caaatccttg cgagcctcgt 360  
catgaatcca ccaaagggtg gagacgaatc atatgcttcc tacaaggcag aga 413

<210> 12472  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-H7

<400> 12472

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ggttggagac gaatcatatg ctctctacaa ggcagagaaa gatggaatcc ttgagtcttt 180
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caaggccgaa ggagcaatgt atcttttccc tcagattctt ctgccacaga aggcaatcga 300
ggctgctaaa gctgctaaga aagcgctga cgctttctac gctctccgtc tccttgaatc 360
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<210> 12473  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 12473

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cagatgacat tttcattaca gacggagcaa gtcctggggg ccacatgatg atgcaattac 180
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cctccatagc tcttcatggt ggagctcttg tcccctatta ccttgatgaa aaaactggng 300
tggggtttgg agatctctga tcttaagaaa caactcgaag atgctcggtc aaaaggcatt 360
gatgttaggg ccttgggtgg tatcaatcca ggaaatccga ctgggcaggt tcttgc 416
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<210> 12474  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-H5

<400> 12474

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aatttaactc tttcaagaag attgtaagat ccatggggta tggcgaggat gatctccctc 180  
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tgaacttggt ctccaatatt actgggtcaaa tccttgcgag ccttggtcatg aatccaccaa 360  
aggcttggga cgaatcatat gcttactaca agggagagaa aggatggaac ccttgagtct 420  
tt 422

<210> 12475

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-E5

<400> 12475

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tcttttgttc acccaacaat cctactggtg ctgctgcatt tcgggaccaa ctaaccaa 180  
tagtaaaatt tgcaaaggac aacagggtcca tcatagtcta tgattctgct tatgcaatgt 240  
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ttgagacagc ctcatctctg aaatacgtg ggttcacagg tgtccgtcta ggttgactg 360  
ttgtcccaa ggagctcctt ttctcggtg gacatccagt tgctaaagat ttcaatcgca 420  
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<210> 12476

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-G3

<400> 12476

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gtttgcaccg tattattttca atgcctacat gtcattccag atgacagggtg ttactgacat 180

attagttggt ggctgcgatc ccaagacact tcctcctgat gttgattggt tggagaagggt 240

tctgaaagaa aatgagccta tccctaaact tgtcactggt gtgaatccgg ggaacccctg 300

tggagctttt atttcaaggc ctatgcttga gagaatttca gatctgtgca aaaatgctgg 360

tgcattggctt gtggttgaca atacctatga gtactttatg tatgatggaa tggagcacta 420

ct 422

<210> 12477

<211> 441

<212> DNA

<213> Zea mays

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<400> 12477

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attggaatta atgttccccg ctcaagattt ctcccggtga aggctacatc tgattttattg 180

cttgtgcagt ctgatcttta caccttgggt gatggctttg tcacccgcaa tccatccaga 240

gcgaatccag ctaacccttc gattgagctt ggacctgagt tcaagaagggt tgccaatttc 300

cttgctcggg tcaagtccat cccagcctc gtcgagcttg acagcttgaa gggtttctggg 360

gatgtctggg ttggttctgg aattacgctc aagggaagg tgacaatcac cgccaagtct 420

ggagtgaagt tggaggttcc a 441

<210> 12478

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-G11

<400> 12478

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gaaggatggc tggatcctc ctggtcatgg tgatgtgttt cctctttga ataacagcgg 180  
aaaacttgac atcttattgg ctcagggcaa agagtatgtc tttgttgcaa actcagacaa 240  
cttgggtgct atagtcgaca tcaagatcct aaaccatctg atcaataacc agaacgagta 300  
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cgaaggaaga gttcagcttt tggagattgc ccaa 394

<210> 12479  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-G1

<400> 12479

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cggcttcttc aaggaccaga cgacctcat ccggctgaac cactaccctc cttgcccgag 180  
ccccgacctg gccctcggcg tggggcgcca caaggacgcc ggcgccctga ccatcctgta 240  
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<210> 12480  
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<223> Clone ID: LIB3059-037-Q1-K1-H8

<400> 12480

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actcaagtgc ttgtctgacg gtgcctctgc tcgttggcag ccgcatcgcc tgctgttgg 180



gcacatctggtg attaataata ctactatgac agagccatgc tctgtgaaga gtattagtag 240  
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ttcatgctta aaactgaggg ttttcttggg gtgaggtgtg catgtcgttg ttgaggccat 360  
tgctgcacat tccacctatt gaggccctcc tcaaaataag ccttcaaaaa gctgatatct 420  
ttt 423

<210> 12481  
<211> 397  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-F1

<400> 12481

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cttcgccaaag actgggctgg attacgtttc ttgctcccct ttcagggtcc cgatcgctag 180  
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tgctgttggg gcacatctggtg attaataata ctactatgac agagccatgc tctgtgaaga 300  
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<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-C8

<400> 12482

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ttcatacttt caatcagagc cagtatcttc gcattgttac cgaggacttc ttgccacttc 180  
caagcaaagg gaaatctggg aaggatggct ggtatcctcc aggccatggg gatgtgttcc 240  
cctctttgaa taacagtgga aaactcgaca tcttattggc tcaaggcaag gagtatggtc 300

ttcgtgctaa ctcagacaac ttgggtgcta tagtcgacat caagatcctg aaccatctga 360  
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gcggt 425

<210> 12483  
<211> 345  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 12483

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ctaggctagc tgcagctcag gtgcttgtct gaggggtgct ctgctcgttg gcagccggat 180  
cgcctgctgt tgggtgcatct ggtgattaat aatactacta tgacagagcc atgctctgtg 240  
aagagtatta gtagcagcgc tcataaaagc tacagttccg tctcttttct cagctatgta 300  
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<210> 12484  
<211> 339  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 12484

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tgatgtgggg aagttcatcc ccatttatct ggctcagggc atcctccagc atgaccctt 180  
cgaggttctc gaccagagag gagtgggcga gctggttaag cttgctacag agaggggccg 240  
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ggttgctttc ttcgccaaga ctgggcttga ttacgtttc 339

<210> 12485  
 <211> 432  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 12485

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tgctacagag aggggccgca aagctaggcc taacttgaag gtgggcattt gtggagaaca  180
tgggtggagag ctttcatcgg ttgctttctt cgccaagact gggctggatt acgtttcttg  240
ctcccccttc aggggtcccga tcgctaggct agctgcagct caggtgcttg tctgaggggtg  300
cctctgctcg ttggcagccg gatcgctgc tgttggtgca tctggtgatt aataatacta  360
ctatgacaga gccatgctct gtgaagagta ttagtagcag cgctcataaa agctacagnt  420
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<210> 12486  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-C3

<400> 12486

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gtgggcgagc tggttaagct tgctacagag aggggccgca aagctaggcc taacttgaag  180
gtgggcattt gtggagaaca tgggtggagag ctttcatcgg ttgctttctt cgccaagact  240
gggctggatt acgtttcttg ctcccccttc aggggtcccga tcgctaggct agctgcagct  300
caggtgcttg tctgaggggtg cctctgctcg ttggcagccg gatcgctgc tgttggtgca  360
tctggtgatt aataatacta ctatgacaga gccatgctct gtgaagagta ttagta      416
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 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-E2

<400> 12487

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attgggtaca agatcgggac gatgattgag attcccaggg cagctctagt ggctgacgag 180

atcgcgagac aggctgaatt cttctccttt ggaacgaacg acctcacgca gatgaccttt 240

ggctacagca gggatgatgt ggggaagttc atcctcattt atctggctca gggcatcctc 300

cagcatgacc ctttcgaggt tctcgaccag agaggagtgg gcgagctggt taagctcgct 360

acagagaggg gccgcacagc taggcctaac 390

<210> 12488

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-F7

<400> 12488

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cactcttgag ctgaggcagc aggcgctcga ccgtctcttg ccgtatcaga ggtctgactt 120

cgaaggcatt ttccgtgcta tggatggact cccggtgacc atccgactcc tggacccttg 180

cctccacgag ttccttccag aagggaacat cgaggacatt gtaagtgaat gatgtgctga 240

gacaggagcc aaccaggagg atgccctggc gcgaatagaa aagcttccag aagtgaaccc 300

gacgcttggc ttacgtgggt gcaagcttgg tatatcgtag cctgaattga cagatattca 360

agcccgggcc atttctgaag ctgctat 387

<210> 12489

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-H7

<400> 12489

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 aactgcgttc tgagacggga gccaaccagg aggatgcctt cgcacggatc gaaaagcttt 180  
 cggaagtaaa cccgatgctt ggcttccgtg gctgcaggct tggatatatc taccctgagc 240  
 taacagaaat gcaagcccg tccatctttg aagctgctat agcgatgacc aaccagggcg 300  
 ttcaagtctt tccagagata atgggtcctc ttgttggaac accgcaggaa ttgggacatc 360  
 aggtggcctt tatccgtcaa gtcgctaaca agagcttcac cagtatgggg aaaacta 417

<210> 12490

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-G10

<400> 12490

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 caacagcgaa cacaaagagt ggctggggct ggcctaggag gggaggaaga agagtgccat 180  
 cacacgaaaa ccatgacctc acagcattgg tgcagtaaca tttcactatt tagagcctat 240  
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 ctaacaaaac agcccctcga accatggttg ttttgcgacc tctaaagggtg gtaataacta 360  
 acttgaaga aggaaaagta ctagaccttg atggcaaaat gtggcctgat gcttctgata 420  
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<210> 12491

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-B10

<400> 12491

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ttctctgtcc aggaggtccg tagctgctca tccatggcat gatcttgaga tcggctcctga 180  
 tgctcctgct gttttcaatg ttgttggtga gatcaciaag ggaagcaaag ttaaatatga 240  
 gcttgacaag aaaactggac tgattaaggt tgatcgagtc ctgtactcat cagttgtata 300  
 ccctcacaat tatgggttctg ttccaaggac tctttgtgaa gacaatgacc caatggatgt 360  
 gttagtcttg atgcaggagc ctgttggtcc tggttcgttc ctgagagcaa gagcaatcgg 420  
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<210> 12492

<211> 154

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-H3

<400> 12492

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 ctggctatgt atcggaacaaa acaattctat atgctgagtt ggagtcggca aaaattcata 120  
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<210> 12493

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-B3

<400> 12493

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 gttgattgct tagcaactgg aagatatgct atcattgatg cactaagggtg gaacggttga 180  
 attatcgatg ccacatacag cacacgaata ccgaagaaca tgctgatgaa aatggctgaa 240  
 ggaaaatgtc agatcatatt tctgtgaaca ctatgtaatg accaacaatgt tcttgagaga 300  
 actatacaat cgaaagttca acaaagacct gactatgcat agcatacaga atatgaagct 360  
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<211> 402  
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 <213> Zea mays  
  
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 gttgctgcac aaacaaaagc aattgctgag aagatcaagg actggagcaa cgtagttggt 180  
 gcctatgaac cagtttgggc tattggaact ggtaaagttg ccaccccagc tcaggctcag 240  
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 cttttgcaga tagtatttca aactgggcag atgttgtaat tgcatacgag cctgtttggg 240  
 ctattggaac cggaaggtt gctactcctg aacaagccca ggaagttcat gctgctgtac 300  
 gcaattggct gaagaccaac atatgaccg atgttgctc tagcactcga ataacttatg 360  
 gaggatctga gaatgcatgc aactgtgcgg agctagcaaa gaaagaagat attga 415

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 <211> 146  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-001-Q1-K1-A2

<400> 12496

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atgatctagc taaatttacc atgactctag cgctttagt tcttgctttc attgctttta 120  
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<211> 178

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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gagcagaagc caaccnncgc nttttcacag agcctggggg cgctatagcc gccgtggagg 120  
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<210> 12498

<211> 152

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-C2

<400> 12498

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cagtggtaaa ttctagaacg cggaagagac taggatgtga tgatgactcg ctcgctgact 120  
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<210> 12499

<211> 245

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-D5

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cgcgacaatt ttccctcaat gctcacaatc tcctatagct taccttcttc ccccatacct 180  
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 <213> Zea mays  
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gagctgggggt aaattctgct ggagcttata tcccggagcc tgaagctgag gcccgaccgg 120  
 ctgcacagct tcttcaagga ccatacgacc ttcacccggc tgaaccacta cccttcttgc 180  
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<223> Clone ID: LIB3059-001-Q1-K1-G12

<400> 12503

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 caactcccct gtgtctcctg ctactcttta caaggcccta attacagata cctacaactt 180  
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<210> 12504  
 <211> 261  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-H1

<400> 12504

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 caattttccc tcaatgctca caagctccta tagcttcctt ttttccccca taccttccat 180  
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<210> 12505  
 <211> 101  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-H11

<400> 12505

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<210> 12506  
<211> 382  
<212> DNA  
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<223> Clone ID: LIB3059-001-Q1-K2-A10

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aactgctgcg gtgtcagaga ttggccaagc ggatgggtgct gatgatattg ccgaatgaat 180  
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cgcgaaattt accagttcat cggtcctgat aaaatcgggt tgccagcttg tgtcaccatt 300  
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tacctttgaa aaaaagtatt ct 382

<210> 12507  
<211> 278  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-A2

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gctttcattg gtttaatatc aagtggtttt tggacacaga caggcggctg cagctgtggg 180  
caacaaccaa ggcattgagcc ataacttcat ccacaacagc atgattcacg gaaacaacga 240  
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<210> 12508  
<211> 305  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-C3

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<210> 12509

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-F5

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catgcactct taccgtcttc tacttatgtc cttgtttgct tcaataatct ggcttgtgcg 300  
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<210> 12510

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-G2

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gcttggtcag tcgatgtacc atgttaatca agtgctagcc ctttctctgc tctgtcgtcg 120  
aagttcttcg gtcttcactt cttgatctgc agatgatata tgaaaacggt atacgaaatg 180

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205

<210> 12511

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-001-Q1-K2-H2

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ccgtgacagt ctccgactgg aggcaggcct gtgcctgtac ggcaacgaca tggagcagca 180  
catcacgccg gtggaagccg gcctctcatg ggcgatccgc aagaggagga gggcagaggg 240  
cggtttctctg ggccgagacg tgatcctgaa gcagcttcag gaaggcccaa agatcaagcg 300  
cgtgggcatg gtcacgcaag ggccgtccgc gcggagccac agcgagctgg tgaaccgctc 360  
gggggaaagg atcggcgagg tgaccagccg gaggttcagc ccgtgcctga agaagaacat 420  
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<210> 12512

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-H9

<400> 12512

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taccaacaat ggcagccaaa atattttgct tccttatgct ccttggtctt tctgcaagtg 180  
ttgctaccgc aaccattttc ccacaatgct cacaagctcc tatagcttcc cttcttcccc 240  
catacctctc accagcgggtg tcttcaatgt gtgaaaacc aattgttcaa ccttacagga 300  
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<210> 12513

<211> 433

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 12513  
  
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 gtttgcttgc gatgttcagg ggcggtgggt ggcgccacgg tgctcgagct gaggcaccac 180  
 agcttcagcc ctgcgccggc caacagcagg gaggaggagg cggacgctct cctgtccgcc 240  
 gacgccgcgc gcgtctcgtc gctgcaaggg cgcataagagc actaccggct gacgacgacc 300  
 agctcgtcgg ccgaagtggc ggtgacggcg tccaaggcgc aggtgcccggt cagcttggggc 360  
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<210> 12514  
 <211> 411  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-002-Q1-K2-A11  
  
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 gaaactggaa ccttttcagt gttaacgttg caatggcggg tacaggcctg tatcagcttt 180  
 cacggaagat caggcaagat tacttatccg atgagaaaga tgctgcttaa cacctggagg 240  
 cttaattaat gacaacaggc aaagattacc ggatgggaaa gcctgcatcc taggagtcta 300  
 ctctggattt ttttttcctg gccagccaag gattaccgat tggtaagggt tggtttcccg 360  
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<210> 12515  
 <211> 407  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-002-Q1-K2-A3

<400> 12515

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cgaacaacaa ggggaggaac agcattggat gcctgttctg gcttttgccc aggatggttc 180  
tgcagatgag gggcactatc ctccctgggc acaagtggga ggtcatgggtg gatttgttct 240  
tctacagggg cccagaggaa gcaaaggagc aggaggagga agctgctgtt gcccctgagt 300  
ttgccgcaat cactgattac caaggagctg atcagtgggg tggtgaccag tggacctctg 360  
atgtgactgc gccgnctggt gtcctactg gtgctgattg gggtgct 407

<210> 12516  
<211> 158  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-A8

<400> 12516

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ctttgttcat aaaccttggt ttaagatgaa gttgtggc 158

<210> 12517  
<211> 345  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-B4

<400> 12517

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ccgttcttga tccgatccgg ccagtggaca acaacttttc ccaattcgat cgaattgatt 120  
ggccgccaag gccaaaagga gatgattacc cctaaaagcc tcgattgcca agaattcgaa 180  
gtggaaaaag ccgtggcgat ggaatcgag accattcggc acatgatcca agatgactgg 240  
tccgacaacg gtatccctct ttctaacgtc aacttcaaga tcctatccaa ggtaatcgag 300

tacttgaaca agcacgtaca tgccgtcgtc ggcgtcgtcg tcgtc 345

<210> 12518

<211> 106

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-C11

<400> 12518

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gtgtcaccat ccatctataa tcttatccat accccacctt ttgtgt 106

<210> 12519

<211> 146

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-C4

<400> 12519

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atccgactga taataaaatg actcgggata ggacaaaata taaaaaaaag tgaaccatt 120

ctaaagactc atgcttacct aaatac 146

<210> 12520

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-C5

<400> 12520

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acactaaagc gactgaggct tatagactct ctaaaaacct caataactat ctcaccattc 120

atcaccaccc atataaaaac cctcaactta ttaacaactc tccataatat ataacttcac 180

atcacatact acaaaacatt aaaatactac caattactat tctaccacca ataataactc 240

atagactcca tcttcaaag tatccaaatc attcaaatca cac 283



<210> 12521  
 <211> 153  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-002-Q1-K2-C9  
  
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 gagtttttct gtcttatata tcctgaattg gtt 153

<210> 12522  
 <211> 443  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-002-Q1-K2-D2  
  
 <400> 12522  
  
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 cttgaaccac ttgatcagtg caacgatgag tgggtgtcact tgctgcctnc gcttcccagg 180  
 acagcttaac tctgacctgc gcaagcttgc agtcaacctg atcccgttcc ctccggtcca 240  
 cttcttcatg gttggctttg cgccactcac ctccgctggc tcgcagcagt accgtgcgct 300  
 caccgtccct gagctaacc agcagatgtg ggatgccaag aacatgatgt gtgctgctga 360  
 cccacgccat ggtcgctatc tcacagctc tgccatgttc cgtggcaaga tgagcactaa 420  
 ggaggtgatg agcaaatgat taa 443

<210> 12523  
 <211> 323  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-002-Q1-K2-D4  
  
 <400> 12523  
  
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catccgttta tgtttttggt ggggatttgg ctttttatac agggcagtca atcatattgg 120  
tgtaagtggc aattaaacga tctagtgcgt ttaatcaaaa tccaatggcg accggtattt 180  
acatttactg gaacctagta ctattttatg ttaaagctcc tccatatgaa attgctagaa 240  
ctagattgaa tgctttgctt tcaccaaagt agtgattgca catgattcac cttccacctt 300  
aaggggcaca ttcatgatca acc 323

<210> 12524  
<211> 380  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-D7

<400> 12524

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gatgcttgag tcagaagaag taccataccg ggaggatcgg agaaatcgta gaagtcgcac 180  
tggaagcatg gatattgagt ccattgcaga gggttccaac tctgcggagt ttggaaagaa 240  
ggtagaaagg actggaagct ctatatctga cagatctcaa ccatgaggcc tggaaatcta 300  
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aggggatgct ggtaggtgac 380

<210> 12525  
<211> 104  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-E11

<400> 12525

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tgtaaattga tcagtttaat taccatactg tgctgctttg agcg 104

<210> 12526  
<211> 384  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-E3

<400> 12526

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gatgagtggg tctgaatgct tgcatttcaa aaaaaaaaaa aaaaaaaaaa aaaaaaagg 120  
caaccggctct acaggactca agcttacata ctcacgcacg cgaccatgca actccataat 180  
agtgccacct agacacatat aactaaccga ctgtccacaa cgttacaact gggaaaaccc 240  
taaaaccacg caactacaaa acttaacagc acatccccac atccccatct ggccagctag 300  
cgaataggcc cagaccgatc gccctatcga acattcgaac aggtctgcat ggctaaatgg 360  
acaacgccac gtagccctgc atta 384

<210> 12527

<211> 207

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-F4

<400> 12527

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taaaagggcg acctttttgt gggaccctat tttagttcac gtgctttcga tgtcatactt 180  
cttgatggg gtcacctaatt ttctatt 207

<210> 12528

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-G4

<400> 12528

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cctctgggtca accattagtc gatgactggg actgtttgaa gaggatgggtg cggattttcg 180  
agtcccagtg tggttcactt actcagtacg gcatgaagta catgagagcg tttgcaaaca 240

tctgcaacag tggatatct gagatgaaaa tgagggagtc gagcatcagc gcttgacagca 300  
gctacaactc ggcgaggtgg agcccgatgg ctccggggaca cagtgcctga tggtaaagat 360  
caaatagcaa agccccccga ggtctgctgc cccatgtccc tgtgagcgag ctcgatcat 420  
ctggggactg 430

<210> 12529  
<211> 340  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-H2

<400> 12529

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aggaactata atgacgttgt cttcatggtc atcttgacgc attgaggaag ttagctcaat 180  
tgcaccagga ctccgtttct tacaactttc agtattcaag gatagggata tcgtgcaaca 240  
gcttgctcaga agggctgaaa atgctggcta taaggcaatc gccgtcactg tcgacgctac 300  
acgccttggt cgcaggggaag ccgatgtcag gaacagattc 340

<210> 12530  
<211> 368  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-A10

<400> 12530

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tagccgccgt cgttcgcata gctgagagga cgctaccata tgaatgggat caagaaccag 180  
gaggacgaga cggctactgc cctaaagtct ccgtctacct atctaactgt tagtcgtcag 240  
tcttttaaac ggtaagagag atcatttggg ctcatagacg aaggcttact gcatagccat 300  
cgcttgagct gccatcaagt acatgtaggc aaattcgtca acttagtgtg tcccatgtcg 360  
taattctt 368

<210> 12531  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-003-Q1-K1-A12

<400> 12531

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 agctaagcac tcattcattcg aacaagttca agaaaactag ataattattat tatattgggt 180  
 aacgctactt gtccatcctc actcctcatc ctcatcgcca gcacgcgcgc caccgcttgc 240  
 cttcttctga ttctttctct tcaccttcc tgccggggcct ncaccgaatg ggcttgacag 300  
 tgaaaagtca atgtgcttct cagactccac cctcaccatg aatgatgggc gccggcgggc 360  
 tgtacccta cgccgagtag ctgaggcagc cgcagtgagc cccgctggcg gccggcgcct 420  
 actacgcc 428

<210> 12532  
 <211> 86  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-A6

<400> 12532

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 gattaacgag tgatcgagca agctta 86

<210> 12533  
 <211> 408  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-B1

<400> 12533

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agagaaacga tatggttgag tacttcggtg agcagctctc cggttttgcg ttcactgcca 180  
atggctgggt gcagtcttat ggggtcaagggt ggcgtcaagcc tccgatcatc tacggtgacg 240  
tgagccgtcc caaccccatg accgttttct ggtcgaagac ggcacagagc atgacgtctc 300  
gccaatgaa ggggatgctg actggcccag tcacaatcct caactgggtcc tttgtccgga 360  
atgaccagcc gaggggttgag acttgctacc cagatcgtct tgcgatca 408

<210> 12534  
<211> 347  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-B2

<400> 12534

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tatcaagtac tgaggagctg tgctttgtca tcagtttttg ggaacatcta gtctttgttt 180  
taagtgttcg gtaacagttt gtgacagtat aatctggtaa accgtgttat ttttctgcca 240  
ctcctatttg aacacatttt ctagctggtg aatgaactgt ttggtcgatc ttgttcagat 300  
gtctggttcg cattcgcatt ctgagagatt tcatgtctcg tgctaaa 347

<210> 12535  
<211> 402  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-B8

<400> 12535

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gctgtcgaat gacactatgc aatgtgatct ggaacctggt ttcttgggtg cgacgcttgt 180  
agccgtgtta tgactgtcgt ccgtaaaatt tgggggctcc ccgtaaggga tgctgcctgg 240  
caaggcctcg gtgtcccacc tcgtctgtgg cgtggggcgc tggagcccg tctggttggg 300  
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gagtggctct atatcaatgg ctggtctcag tgggtctatac gt 402

<210> 12536  
<211> 80  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-C5

<400> 12536

aaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaa aaaaaaaaaa 80

<210> 12537  
<211> 405  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-C7

<400> 12537

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ctgccaatgt gagtgccaa aggaagagga ataagaatgg gcaggttgag gatgatgttg 180

cgatgcagga agaagttcat gtggagatag agaaagagaa gaggaaaagc attgtgattt 240

ctgctaatga cagccatatg gctggcgaga atggtgaaca gatgggcaaa cgtagtttgg 300

aaaataaggt gaacgaagcc agtttggaca acgtgaacgt taagatggtg aagactgagc 360

agaggaagat gaagagcatg aacggtgatg gtgaaatcag tactg 405

<210> 12538  
<211> 447  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-D10

<400> 12538

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tgccattcaa ccaactagct gcattgaact ctgctgctta tttgcaacaa caactagtag 180  
taccattcag ccagccagct gctgcctacc ctcagcaatt acttccattc aaccaactag 240  
cagcattgaa ctctcctgac tatgtacagc agcagcaact actaccattc agccagctag 300  
ctgctgtgag cactactgcc ttcttgacac agcaacaatt gttgtcgttc tacctgcacg 360  
ctgcgcctaa cgttggcacc ctcttacaac tgcaacaatt gctgccattc aaccaacttg 420  
ctttgacaaa cccagcagcg ttttacc 447

<210> 12539

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-D11

<400> 12539

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gaactatgat gcttataagc aacaacaact aggactacca ttcaagcagt catatgatgt 180  
ctaccctcag taatttgcta cattcaacca actaccagca tggaactatc aggtctatgt 240  
acaggcgtaa caactactac cattcaggca gctaaatgat gggagccctg atgccttctt 300  
gacac 305

<210> 12540

<211> 207

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-D12

<400> 12540

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ggagtcttat gctgacattg gtggcttgga tgctcaaatt caagaaatca aagaagcagt 120  
tgaacttccc ttaacacatg ctgagctatc tgacgacatt gggatcaggc catcgaacgg 180  
aggtatacta tatcggaac ctggaac 207



<210> 12541  
 <211> 340  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-003-Q1-K1-E1  
  
 <400> 12541  
  
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 gcggtgccgt tcgtcatcgg ccccgggatg ccgcgcgacg gcaccaccg gtttcgggac 240  
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 gtggacgtga accaggtggt caaggtcgac cccgtcgtgc 340

<210> 12542  
 <211> 192  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-003-Q1-K1-E7  
  
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 cctactagtt atgagaaggc tgctgtgtta aaaatatacc atataaaaaa aagaaaaaat 180  
 aaataaacta ac 192

<210> 12543  
 <211> 330  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-003-Q1-K1-E8  
  
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 gcggaaggag gcgtagcgtc ggggtgtggc cgaaatttac tgggcgggag gggaccaatg 180

gattggatac ggaaggaggc gtagcgctcg gtgctgtgctt ggatggacat ggactatgca 240  
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 tgcagaacag aagtgataat ataatacctg 330

<210> 12544  
 <211> 278  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-F11

<400> 12544

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 cgcgagtacg aactgataaa ggggtggcttg ccaagaacat gcagcggtcg gttgaagcag 120  
 ggcggcgagc gtcttttaggc ttgtttatgt gtgtgagaag gacttcttct ttttcgtggg 180  
 tttaggcgtg gggaaagagc tccttttatt aagctccttt aaccaccttt ttttttgggt 240  
 gttcagattt tctatctttt cagttcgacg ctttttgt 278

<210> 12545  
 <211> 457  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-F3

<400> 12545

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 gacggtgccg tcggcggttga cgagcgcggc gtccctgccta cacatgtggc cctgcatgaa 180  
 cccccagagc acgacgccct gcaccgccgg gtgcgcgaac gcctcgcgca ggaccacctc 240  
 taggtcgtcg gcgcggagcg cgtcatcggg ctgcgagacg tcgacctccg tgaaccagac 300  
 gggcaagccg gtggcggcgt agaccgtgtc gagcgcgtcg cagatgacct cggcgacggg 360  
 gtgggtgacg tggccctgca tcccagacgc gtgcacccgg gcgccgtccc gctgcagggc 420  
 tcggacgagg tcgacgtacc gctgcggcgt ggtggac 457

<210> 12546  
 <211> 432  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-F6

<400> 12546

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 ctttttagagt cgggagctct aatgcaacgg gtcattgcttc tgattcgctg gttccttcaa 180  
 gcacgaaagt tgaagattta acctccagtc ggcaggacat atttcttctt cccctgagag 240  
 ggcacgacga ctcgacaaag tttgagtatg gaacgtactc gtgcatgcta ggcattgatcc 300  
 gtgatcagat cctgtcatgg ccggcgagggt cattctcgaa gaacctctcg gagcgtgact 360  
 ggctgaggag ctcagcgagg atctgggaca tgggtgaagaa gtccccgctc atctcggagt 420  
 actgcaaggc gc 432

<210> 12547  
 <211> 364  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-G1

<400> 12547

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 atttatcaga tagcacggtg gggaaaaaaaa aaaaggctcag aaacacaaaa cgagaagaat 120  
 agaaaaaact gctatcgccc ctacgaacat ggattaccac ttgccaaaat ggggcgtcca 180  
 ctttataaga tccaatgctt agcacactct catgcaagat ggctgctttc ctatagagcc 240  
 ccctaaatta aggatactgg cctgtgcatg tcaccacaga gacttgggaa accatggcct 300  
 ttccaattt aacccttttg ctgaaaagcc tcgttttgac agctaccgtt aaactgataa 360  
 ggcc 364

<210> 12548  
 <211> 471  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-H1

<400> 12548

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gccagccacc gccgccggtt catctaccgg cgccggtgca tctgccacct ccggttcacc 120  
tgccacctcc tgtgcatctc ccaccgccgg tccacctgcc gccgccggtc cacctgccac 180  
cgccggtcca tgtgccggcg ccggttcata tgccgccgcc accatgccac taccctactc 240  
aaccgccccg gcctcagcct catccccagc cacacccatg cccgtgccaa cagccgcata 300  
caagcccgtg ccagctgcag ggaacctgcg gcgttggcag cccccgata ctgggccagt 360  
gcgtcgagtt cctgaggcat cagtgcagcc cgacggcgac gccctactgc tcgcctcagt 420  
gccagtcggt gcggcagcag tgttgccagc agctcaggca ggtggagccg c 471

<210> 12549

<211> 212

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-H12

<400> 12549

gtttgcttct gtgcagttgc ctaataagcc cattcgttgt aaactagcta gttctaactt 60  
aagaaagctc cctcagggcc tatgcatgag tctctgatta ttgtgcagat gaactgttct 120  
ggacattttg aacatgcaaa tgtggaagcg tcaactgtcag ttgaattatg tttcagccga 180  
attgagaagc gctaaaaaaaa aaaagaaaaa tt 212

<210> 12550

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-H2

<400> 12550

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tttatgaccg catggctcca atttatacac gggaccacaa catggcacct tcgaaggttc 120  
ttgatgctga tgtgacagct aatagtttaa cataccgtaa tggtactacg tgatacacga 180

gtaagaataa tgaagggtgaa ctccgatctt gcataatctga aggtaacaag gttgatgtca 240  
agaacatgct gaggaaggtc aagtgagtga cattacatca gaataagaac ctggcctaata 300  
atgggatgct ggctattagc attgggaaat attcatgcat tatgatagcc atcattgaca 360  
agaatgctcg aattggagac aatgttaaga tactcaatgc tgacaatgtg caagaagctg 420  
caatggagac agactggtac 440

<210> 12551

<211> 276

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-H6

<400> 12551

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gtgctgggca agaaaagtgc ggtggcctta gggatggcta ctacattcat ggtcagtgtg 120  
ccatcattat gtttgatgtc acttctaggc tgacatacaa gaatgttccg acatggcaca 180  
gggacctgtg caggggtctgt gagaacatcc ccattgttct ttgtggtaac aaggttgatg 240  
tcaagaacag gcaagtcaaa gccaaagcaag ttacat 276

<210> 12552

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-H9

<400> 12552

cccacgcgtc cgcttaccta cttatctttg tagcttacgt ttctatttta ttctgtcatg 60  
aaaactaaag tcttatgtat ggtcattatg tactattttg gttctgaaaa tatttgttta 120  
tgttatgaaa actattgggt gaaagaatgg tgattacggt tttggcttga aggttcagaa 180  
gtga 184

<210> 12553

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-A2

<400> 12553

tcggttcaga ttccccgggcc gaccacgcg tacgatccat atcagcatat eggcaattct 60  
cttagaggat cgtcgaacag aacaccatga agggggacat tgatctcgtc gtgtgcctgg 120  
ctctgtcage tgccagcgcc tctgcaatgc agatgcctg cccctgcgcg ttgcttcagg 180  
gctagtacgg cgctggcgcc ggctgacga cgatgatggg cgccggcgga ctgcaccct 240  
acgctgagta cctgaggcag ccttaatgca gcccgtagc tgcgacgcc tacta 295

<210> 12554

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-B4

<400> 12554

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agggtttcat gccactcaac cgcttgaatg ctgctcgtag gcgggcattc actcaataca 120  
gaatgtctgc gcttttagttg ggttgggctc caaagtttca atgttccagc attcctcagt 180  
cgaaatttac aatgcctgca aaccacatcc tactcttgag attcacaacg cccgatatgc 240  
acaaagatgc cccaaagggt gctgtcctcg tgtttcgtgc tctgattgtt gagtcttcaa 300  
tgagagctga ttccagatat atagagggtga acaagcttat gattattacc tttggtaatt 360  
tggtgcaaca taatagaggt gaacaagctt attaaaagaa gatccttgta caaatcaaga 420  
gttcaatcca atagatgaaa cgatattgtg attctctcaa tgggtggct 468

<210> 12555

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-B8

<400> 12555

tggggaagttc cttgaactta gtttttcaag ccactcaacc gctagaaggc tgccaatatg 60  
cgggcattca ctcaatacgg attgtctgcg ctttttttgg gttgggctcc aaagttgcaa 120

tgttccagta ttcttcagtc gaaatttaca atgcctgcaa accacagcct actcttgaga 180  
 ttcacaaccc cgatatgcac aaagatgccc caaggttgct gccctcgtgt ttcgtgctct 240  
 gattgttgag tcttcaatga gagctgattc cagttatata gaggtgaaca agcttttgat 300  
 tatttctttt gttaatttgg tgcaacatat agaggtgaac aagcttatta aaggaagatc 360  
 cttgtacaat caagagttca tacaatagat gaaacgatat tgtgattctc tcaatggtgg 420  
 cttcatgagc aagcaatc 438

<210> 12556  
 <211> 284  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-C2

<400> 12556

taatattttc agcattcaaa aacacacctt gctattcgca ctagcaacga cctaacacca 60  
 atggctacca agtatattag ctcttcttgc tctgattgcc ctttttagtga gctcaacaga 120  
 tgcattcatt attttatagt gaatacttgt ttacattgcc tgtttaccac aatatattct 180  
 tgagattaat aacatagttt tgcacaatga tgccctactg ttgcttacat tgtgtttctt 240  
 gctcttattg atgattcttc aatgatagct gattccagtt atat 284

<210> 12557  
 <211> 115  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-D11

<400> 12557

tcgaaagctt gtccttgatt ccaagttcca tctatgagaa cttggacata ggatattgga 60  
 cgtcattact ttgaagaaaa agccaagctc tagaagtttg ccaaagattc ttgcc 115

<210> 12558  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-D5

<400> 12558

tgaacacacc acccctcgtc tccgcacgga ggccgtcctc tcctctcctc tgcgtccgcc 60

actgccgccc accgctcgcc cacgcgcgct ccattacctc ggcgggcgat ggccgacctc 120

tccaacaccg gctccacctc acacgagcag cgcggccgcc tagggcggtg gctggtcggt 180

cgtcgagcag ctacggcgcg cagcgcccgagg aggcggtctc actctcctcg tcggggcggc 240

aggagatgga ggccatcgct ggcgcccgcg cgcgcgcgcg tggccgtgcc tgggcccggc 300

tcgagaagcc gccgcgcgcc gcttgctgctg ccagagtccc gacggcgagg ctgcggtcgc 360

cggcggacag gccgcggagg ctggtgctgc tgggcgccga tacgcggagg gccgcggatt 420

atcctgccct ccgttgcg 438

<210> 12559

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-D7

<400> 12559

taccgggtccg gaattccccg ggcatagat gcgtagcggc acgctttcgg agaccaacaa 60

gcaacataga aagtggaatc cagtagcatc aatagagcat caatggcgac caagatttgt 120

ccctacttat gctccttgct ctttctgcat gtgttgctaa cgcgacggtt ttcctcaat 180

gctcacaagc tcctatagct tgctttgtta cgccatacct tacatcaatg atagctggac 240

tatgtgaaaa ccagctctt caacctata ggctccaaca agcaatcgca gcaagcaaca 300

tacctttatc acccttggtt caacaatcg cagccctatc tttggtgcag tcattggtac 360

aaaccatcag ggcacagcag ctgcagcaac tcgtgctacc tgtgatcaac caagtagctc 420

tggcaaacct ttctccctac tctcagcaac aacaatttct tcatttcaac caactgt 477

<210> 12560

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-E12

<400> 12560



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 ttatatgtcg caaggagata ccggggacca tggaagggat tcagacagt attacaagta 120  
 gcaacgacga tacttaatca ctgaaatttg cctagtgtaa gagctttgat aaagttgaag 180  
 gcagagaatg gtatgagatg gttatgagaa g 211

<210> 12561  
 <211> 66  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-E4

<400> 12561

cggacgcgtg ggaaaaaaaa aaaaaacatt aataagacaa aaaaaaaaaa aaaaaaaaaa 60  
 gaaaaag 66

<210> 12562  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-E6

<400> 12562

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 tctgatgttt gtggcttccc agaaataata aagtccattt ctaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggccg cccgttttaa 240  
 aggatccaag cttacttacc cttccatcca acgtaatacc ttttctatag ggccccctaa 300  
 atcaaattca ctgcccgtct ttttaacaact tcgaaactgg aaaacccttg gctttcccaa 360  
 actaaatccc tttgcagaaa atcccctttt cgcaagttgc ctaattacca aaaa 414

<210> 12563  
 <211> 378  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-F2

<400> 12563

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gtatcaccat tttcctgaat gctcgtaac gagttcatat gctataacac aaggacatcc 120  
cattgttgct gcagccacaa gagtccagaa caacagaaaag gcaagattta atccaactca 180  
taccacaaccg tgcagtttct tttattacaa aaaggggaagg agcagcattc ataggtgtgg 240  
agcaccgatc aacttgaaac caaaaccaga ggtgcgttgg gctcaaaga ttatcgtcga 300  
tcaggcctac aggaagtttc tgatgtccaa tttcctgaca tcaggcatct cctcatcttg 360  
aaactcctcc ctcttgag 378

<210> 12564

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-G10

<400> 12564

aattccccggg tcgaccact cgtccgcca ctcgtccggg ggacactatc ctgggttata 60  
gagcgggttca ggttaattgg aaagatctgg actattgcaa tgtttgtgat atggatgagg 120  
agtatgaaga caacttattc ttgcaatgtg acaagtgtcg tatgatggtt catgctagat 180  
gttatggtga acttaacaaa ttggatggag gactttggct ttgcaacttg tgtcgaccag 240  
gtgcacctcg tgtgtctcca aaatgctgtc tatgtccagt cacagggtgt gcaatgaatc 300  
ctacaacaga tggccgttgg gctcatctcg catgtgctat atggatccct gaaacatgct 360  
taaaggatgt aaagagaatg gaacctattg atggactgag cataatc 407

<210> 12565

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-H10

<400> 12565

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gggtagataa acatataggg ttgatgagtt gaatattaga tagttataat gaggtagatc 120

tgagatttga aggcattatc gattacactt ttttgaaggc tatcaacact gggaataggg 180  
ctggccgttc tataggatat atgcttacgt tcgcttgcat gttacgttat atctctttta 240  
tagtgttacg taaattccat tcaactgttg gctttttaca acttcctgac tgggaaa 297

<210> 12566

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-H2

<400> 12566

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ttccacaggt tcagcacttg aacaatctaa gttaccaaca caaggcattt taagttcaga 120  
gaaaagtgag aaataaacac atggccattt ctagtccatc tttactccaa caaaacctta 180  
gatgctgctc ggggtacatga acactctgac cttgcgcccc atggactcat gcgggagggt 240  
ggacttgaac ttggcacgga cgacgcccga gtttacgtgc ggacgggtga ccttgcccca 300  
gatgcacctg tagcgggtct catagctctt ggtcttggcc ttgtagatgt acgccatgct 360  
cttgccagcg taccacgca catccatatt ggtgttcacc 400

<210> 12567

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-H4

<400> 12567

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gcagtttgcg gctaactccg caaccctctt acaactacaa caattgttgc cctctgtcca 180  
acttgctttg acagaccag cggcctgcta ccaacaacac atcattggtg gtgccctctt 240  
ttagattgct tattagctgt aattcaataa tatagttttt tggatgatgt atgtggccaa 300  
ccagaagtac gatgttacat ttccagattc taatgtgata ttggtctcca agggagtcgg 360  
attaaagaag ccgaaatc 378

<210> 12568  
 <211> 428  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-004-Q1-K1-H5  
  
 <400> 12568

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 gaacgagttc ttgggtcgagg tgctcatgct tacagtgtc aaccatcgca accttgtcag 180  
 cttgggtcggg ttctgcgcgc agggggacga gaggtgtgtg gtctacgagt acatgccgtt 240  
 cggaagcctg gagagccatc tgtttgacgt gcctctcggc aagaaaccac tcgactggaa 300  
 cacgcgcgtg aggatagccg tgggagtcgc ggaaggggtt tcctacctgc acaacgtagc 360  
 cgacccgcct gtgatctacc gcgacatgaa ggccgncaac attctgctgg gcgaggactt 420  
 cagcccca 428

<210> 12569  
 <211> 317  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-005-Q1-K1-A1  
  
 <400> 12569

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 aggaacataa gaggggggtt ttgtcaagac ccacaagagc aatgcatact tcaagcggtt 120  
 ccaggtgaag ttcaagagaa agcgcgctgg caagacagac tacagggcca ggataaggct 180  
 gattaaccaa gacaaaaaca agttcaatac acccaaatac agatttgttg tgcgatttac 240  
 caacaaggac atcacagcac aaatcatatc tgctagtata gcaagtgata tggttcttgc 300  
 ttctgcttac tcgcatg 317

<210> 12570  
 <211> 415  
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-005-Q1-K1-A11

<400> 12570

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gttgaggctg accagatcgt cgcttggttg aaggagtact ttgacggcaa attgacgccg 180  
ttcaggaagt ctgagcctat tcctgagggtc aacaatgagc ctgttaaggt ggttgctcgt 240  
gacaacgtcc acgacttcgt cttcaaactc ggcaaanatg tccttattga attctatgcc 300  
cactgggtgcg gacactgcaa gaagctggcg cccatcttgg acgatgcagc caccactctc 360  
cagagcgacg aggaagtcgt gattgctaag atggacgcga ctgccaatga cgttc 415

<210> 12571

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-A3

<400> 12571

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ttctacatgt gttgctaacg cgacaatttt ccttcaatgc tcacaagctc ctatagcttc 180  
ccttcttccc ccataccttc catcaattat agcttcaata tgtgaaaacc cagctcttca 240  
accatatagg cttcaacaag caatcgcagc aagcaacata cttttatcgc ctttggtggt 300  
tcaacaatcg ccagccctat ctttggtgca gtcattggta caaacatca gggcacaaca 360  
gctgcagcaa ctctgtctac ctctgatcaa ccaagtagct ctggcaaacc tttcttctca 420  
ctctcagcaa caac 434

<210> 12572

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-A4

<400> 12572

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atccttattt ttgctgaagc gcttgccctc tacggctca tcgtcggcat tatectctcg 180  
tcccgtgccg gccagtcccg cgcagattat aggcacgttt cagatgtcaa caccgtgccg 240  
tcgacagttg cctggctgta gctgggtcat gttctatata catgagacac gaagctggag 300  
cactttgaga ggcttacttt tatgctgtct agttctccat cttctgttga gtcgagaaaa 360  
caagaaaggc tgtgtaatca agggatgact ttacccttg tgccattctt ttccctgtcg 420  
aggtggggggg 430

<210> 12573

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-A8

<400> 12573

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ggcgacgcac cgccactgcc tcccactcct cctcgtggcc gccgcccctg cctcgcgcgc 120  
cggccctgct cgcgccgcgc ttggccggcg gcccgggccg gctgtgggcc ggttggaacc 180  
ggatccttgc ctgaaccaat tggaccttcc agaacctagc cggtgggccc ctggggccagc 240  
caagccccca aagcctggcc gccaccggct ggcggttccg cgggttgtgc cccgctaacc 300  
acaagtcttg ttccggatga actaccggct ttta 334

<210> 12574

<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-B3

<400> 12574

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gacctcaagc ccgacatcca ggtctccaag aaccagatcc tgtactgtac aagcttgagc 120

tggagtgcgg acggaagcac catctagcct gcgta

155

<210> 12575

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-B6

<400> 12575

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ggtgctaagg gcaatacgtt cgccaagaaa cgctatgctg agaacgctca tatgaagaag 120

accctgaaaa tgcacgatga atcacataat cgacagaagg ttgatgatga tgtccaagag 180

ggtgctcttc ctgcgtatct actggatcgt gatcagactc agcgtgctac ggtactcagt 240

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<210> 12576

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-C11

<400> 12576

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ggggtgataa aaactgtgcg tgcgaattcc tatgctccat tatgatgccc cgtttatttg 120

atccatgggg cgaagtttta catctacgcg acggggaaaa ccgtggcggt gcccaactta 180

ttcgctcgc agatcatgcc cgtttcgcaa gctggagtaa tatctaataag gcctcgtccg 240

ttggcctttg ccaacagtag cgcagtctga ttggcgtttg gg 282

<210> 12577

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-C12

<400> 12577

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 aaccatcagg gcacaacagc tgcagcaact cgtgctacct gtgatcaacc aagtagctct 180  
 ggcaaacctt tctccctact ctccgcaaca acaatttctt ccattcaacc aactgtctac 240  
 actgaacctt gctgcttatt tgcagcaaca actattacca tttagccagc tagctactgc 300  
 ctactctcaa caacaacaac ttcttccatt taaccaattg gccgcactga accccgctgc 360  
 ttatttgcag cagcaaatac tactaccatt tagccagcta gctacagcaa gccgtgc 417

<210> 12578

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-C3

<400> 12578

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 catccggaac aataattaaa ggggatccgg atttgttctt gtgatataat taacgattcc 180  
 tggtatactt ggaagtagct aggctcgctc ccatccaatg caagcaaaga tctgatctcc 240  
 caacgtgcat gagaaaatgt gagcgattta cttcaccggt ctttctctta attaaatgga 300  
 aatgtgaagt ggaacataag aaattaaggt ga 332

<210> 12579

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-C4

<400> 12579

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 ggacaatttg ggcttcagtc gcaaatgttg ggcgaggcta ggcaaaaggc catggcacaa 120  
 aacaccaat tgaataatgc taatacagct caagtgtctg aagggatgca acccatgggt 180  
 gtcatgggtg ctatggggat gaaccagacg agaccgaatg taactatttc ctatgggtgt 240



caacaaaagg ttgcccaagc acaaatgaag gcacaagcat tttacaacc t 291

<210> 12580

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-E1

<400> 12580

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gcttcaagct agtctcggcg gctctagaag acgatgggca aggacgacgt gatcgagagc 120

ggcgctggcg gcggcgagtt cgctgccaa gactacacgg acccttcccc ggcgccgctg 180

atcgacgcgg eggagctggg gtccctggcg ctgtaccgcg ccgtgatcgc cgagttcatc 240

gccacgctgc tgttcctgta catcacggcg gccaccgtga tcgggtacaa gcaccagacg 300

gacgcgtcgg cgtcggggcg cgacgcggcg tcggggcgcg tgggcgtgct gggca 355

<210> 12581

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-E4

<400> 12581

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tcaagatggc ggcgtcggat gttgagtcgc gctgcttcgt cggcggggctc gcctggggcca 120

cggacgacca ctctcttcac aacgccttca gcacctacgg cgaagtcttc gagtccaaga 180

tcattctcga tcgggagaac cataagttcc gccgggttcg gttcgtcaac cttttcaacg 240

aagaagccat tccgaaccgc cttcaaggcc ttgaccgcaa aggagctgaa cggccgcacc 300

ataaccgtca acgaggccca atcccgcggc ggccgtgaag gcggcgggcg tgggtacggt 360

ggtggccgtg gaggcggcg ctacggcggt ggccggcgcc gtgatggcg cggcggctac 420

agcgggtggcg gcggctacgg tggcgggcg gcctacggtg gtggt 465

<210> 12582

<211> 262

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-005-Q1-K1-F3  
  
 <400> 12582  
  
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 gccaccaaca ttagataaaa aacttttattt ttgaactata actcatatga aatctaaaag 120  
 agggcaccac caatgatggg ttgttggtat gaacactgat gggtttgtca aagcaagttg 180  
 gttgaatggc atcaattggt gcaattgtta taagggtgcca agctttggcg caacgtgctg 240  
 gttgaacggg caccactgtg gt 262

<210> 12583  
 <211> 303  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-005-Q1-K1-G10  
  
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 atgaaaatga gtatgctaaa tctgttgtaa gatcaccttg tattggacct catacatatt 120  
 atttagcgcg atctaaatga acattcagtg gctgcatttt taagtgcac cataatgtga 180  
 aaactgctgg ggctaacgaa attaactctga ttgcatctca tcaaggttta tcaagctggg 240  
 gtaatatcga agaggccggt acagattgac gttccgaaca ttttgacacc ctgaatgggg 300  
 aat 303

<210> 12584  
 <211> 232  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-005-Q1-K1-G12  
  
 <400> 12584  
  
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 agtaagacga cacacattat catgtgtggt atgaccaata atatatgcat gatcataata 120  
 aagttttggt tttaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaatat aaaaaaaaaa ataaaataaa aattatatac aaatgtataa ag 232

<210> 12585

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-G6

<400> 12585

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gtcctatag cttcccttct tccccatac ctatcaccag cgggtgtcttc agtgtgtgaa 180  
aacccaattg ttcaacccta caggatccaa caggcaatcg caacaggcat cttaccatta 240  
tcacccttgt tctccaaca accgtcagcc ctattacaag agttaccttt ggtccatttg 300  
gtggcacaaa acatcagggc acaacatcta caacaacttg tgctagcaaa ccttgctgca 360  
tactctcagc aacatcagtt tcttccattc aaccaactgg ctgcattgaa ctctgctgct 420  
tatttgcaac aacaactacc att 443

<210> 12586

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-H3

<400> 12586

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tcgagacgaa aactgcaaag gctgctaccc aggacattct gacgacgcac tgtatacctt 120  
ctgcaacgtc ggatgacctt aaggcctagt gggaggagaa gggagcatga cgcagccctg 180  
ggcctgagcc agggccatca ggtgggcca tagtttgggc cacaatttcg gctgaattga 240  
ttagcgcagc gtacgatccg tgatgaagag gaaccccaat gtttatctgt ttaagttaaa 300  
tatcttttga agggttgtgg atgtgagagt gctggctggt gtctaaagct ccgccattat 360  
agaaggtttg agggactgtc actgtcagat aacaataaac tggagtgttt acagacagag 420  
tcatcgtgaa aacgatagtg tct 443

<210> 12587  
 <211> 447  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-005-Q1-K1-H6  
  
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 gagccaaaca tattatggat gtggatgcc actggcatat acggatgaga cctagacaca 120  
 tcatagatgc taacgaagtt caagagagaa atgtcgagtg cagaaaacaa atgctatgta 180  
 atatgtacca gggttcaaat gtctattgct atgacagttt ggccttaact aagagatctt 240  
 ttagtgactt gagtgccatc ttacgggaaa agagtggcct acaggatacc ctaaattgtgt 300  
 cggtagaaga aaagcttaca atttttctgc ttatagtagg tcataacacc aaaatgaagt 360  
 tgatccgtag cacttatggg tggtccttg aaccaatcaa tcgacacttc atcgaagtgc 420  
 ttatagggat tctatcttta agtcatg 447

<210> 12588  
 <211> 154  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-005-Q1-K1-H9  
  
 <400> 12588  
  
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 ggataagcaa atagcttggg gagttggcgt tcgattgtta tattgagtga gaactgagat 120  
 ttgaaggcat cttcgagaca cttttttgaa ggca 154

<210> 12589  
 <211> 417  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-006-Q1-K1-A2  
  
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 ctggggcgca tccaagcttg tcccagacgg atatggtatc aagaagctgc aaatcatgat 180  
 gaccatagtc gacgatcttg tctctgtcga cactctcatt gaggactatc tgtgcgctga 240  
 gccagttaac gagtacgtcc agagctgcga catcgttgcc ttcaacaaga tctagggctg 300  
 actttcgatc agtccttccc ctgggggtgct ggcgatgggtg gtggctgggc aatgcaccag 360  
 cctaattttt ccataacttt atgtctgctt tgtgttggcc agtgatattg ccgtgag 417

<210> 12590

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-A9

<400> 12590

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 agtgataaaa gatcagagat ctatactaaa aatacacaag aaataataaa aaaatagaaa 120  
 aaaaaaaaaa aaaaaaaagc tatagaaaaa agaaaaaaaa aaaaaaagta aaaaaaaaaa 180  
 aaaacaaaaa aaaaaaaag ggggggcatc ttttaaggat cc 222

<210> 12591

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-B3

<400> 12591

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 atatcttggt aaagttcaga cagagaacct aagtcacaat aaacatagga ggaaatgaag 180  
 gtatatatgt ttgagctaga ttttgaaaaa atgaaataat aagttgctaa aacagacctg 240  
 tgctaaaatt ataaaagata aaaaaaaaag attgaaagaa tatgaaaata aaaacaaggg 300  
 cggcccggtt tatagggtcc aagcttacgt accccggcat t 341

<210> 12592  
 <211> 72  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-006-Q1-K1-B6  
  
 <400> 12592  
  
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 aagtccattt ct 72

<210> 12593  
 <211> 446  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-006-Q1-K1-B9  
  
 <400> 12593  
  
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 ctgcatgtgt tgctaacgcg acaattttcc ctcaatgctc acaagctcct atagcttccc 180  
 ttcttccccc ataccttcca tcaatgatag cttcagtatg tgaaaacca gctcttcagc 240  
 cctataggct ccaacaagca atcgcagcaa gcaacatacc tttatcacc ttgttggtttc 300  
 aacaatcgcc agccctatct ttggtgcagt cattggtaca aaccatcagg gcacagcagc 360  
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 ctcagcaaca acaattttctt tcattc 446

<210> 12594  
 <211> 209  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-006-Q1-K1-C2  
  
 <400> 12594  
  
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acgccttatt aaaggatccg tgcttacgat cggctacttg cgacttaaaa ccttttatat 180  
cgagtctcat aaactgcaat tacttgcat 209

<210> 12595  
<211> 392  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-006-Q1-K1-C8  
  
<400> 12595

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tcacgtcaac ggagatgaac ttgagaagcc aagcatttct ttatcagaga tgtttcgctt 120  
caagatgaaa gcaatcgaag ctacaaaagc atggctgaag agacctgaag tgcttgaaaa 180  
ctgttccact gggcttcatt tcccctcaga acatgtggag aaccctgagg agaaggtgat 240  
gccactcaag tcacttcctt tctatgccgc tgatgggtag aaagatagtt gatggcagct 300  
actggaggat gctgcagttg ttgatgtaaa taagctcgct tgacagttgt ggaacagtgt 360  
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<210> 12596  
<211> 94  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-006-Q1-K1-C9  
  
<400> 12596

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aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaa 94

<210> 12597  
<211> 438  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-006-Q1-K1-D1  
  
<400> 12597

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atgacttgca gctcaacagg aaatgtccat cattaacggc aattcgagac aagtacaagc 180  
agcacaagtt caaatgcgtg tcattgatcc tcgtgcctgt cgtgatccct acttcatact 240  
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ctctccttga gctcttaggg acaagcagaa aataaccgtt tgatgagctt tcctctcatt 360  
taagtagcgt ggtgaaagct attggtttga ggttctttag gattcgcgcc gctgtgtcac 420  
tcttagtgag accaggca 438

<210> 12598

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-D2

<400> 12598

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cagcattttt tgcaatctct atttttgagg tcaaagata tctacctca cataaatcca 180  
cattggcaga gacaaaaatg aaaataatag atcctagtac ctgtaagaga tccataactaa 240  
atactatgaa tacttagatg ttaaccatgt tactcgactg aactcgttgt aaggataaca 300  
aaaaaggggg ggccctttta aaggaccac tttta 335

<210> 12599

<211> 360

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-006-Q1-K1-D3

<400> 12599

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accattcatg ttcagcccca cagccgggag atctcaccca tgtttttaca gcagcccttt 180  
gttggtgctg cattctagat ataagcattt gtgtgtgacc caataatgaa gtcggcatgc 240



catcgcatgc gactcattgt ttaggaataa aacaagctaa taatgacttt tctctcatta 300  
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<210> 12600  
 <211> 268  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-006-Q1-K1-E4  
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 tgcaacggcc gagtcgagga gttcatcaac gccaggacc tcttagctga ggatctgcgc 240  
 tacacggata tgtgcgcgct gattgccca 268

<210> 12601  
 <211> 184  
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 <223> Clone ID: LIB3059-006-Q1-K1-F2  
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 aagcgcgccg gatggggagg atggcaagcc acaagagtgg cgagacagag acaccttcat 180  
 tgct 184

<210> 12602  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-006-Q1-K1-F4  
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 cctcatcgac gagtacaagt tgaagggcca tatccgggtg atctcggcgc agatgaaccg 180  
 cgttcgcaac ggggaactgt accgctacat ttgcgattcg aaaggcgcac ttcgtgccag 240  
 ctgcgttctt cgaaacggtc gggctgactg ggatcgaatc catgacgtgc ggtctgccaa 300  
 cgatcgcgac cttccatggt gggccctctg aaaatatcgt ggactgggta tttggcctgg 360  
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 g 421

<210> 12603  
 <211> 411  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-006-Q1-K1-G4  
 <400> 12603

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 agggacactg catatatgat ggtgggttact gctcatgatg atagaagcag agactacact 180  
 ctttcagacc ctaatgcgca gctgcaaget gctgcacagg cgccagttat aagttctccg 240  
 ggagtggcat ggcgaaaccc tgcattagca ccagttgttc ctttctatgg aagcacgggg 300  
 gcttaaactc ctgttggaac accgcttgct gggaacccta aaatgcaggc ccttggtttt 360  
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<210> 12604  
 <211> 319  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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gccgactcca tgcccatagc ctgctgccgg cgggtgtccc cactgaagaa actatgtgct 180  
 gtagtatagc cgctggctag ctagctagtt gagtcattta ccgtcgacga ttgagtaata 240  
 atgtgtcacg catcaccatg agtggcagtg tcagtgtgag caatgacctg aatgaacaat 300  
 tgaacgacaa gaaaaagta 319

<210> 12605  
 <211> 469  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-007-Q1-K1-A2  
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 ttatttttatg gtactctgct tatattttta gttttttttt ttttatctgg ttttttttat 180  
 ttttctgttt tttttttata tttctctcat ttttggttta tttttttttt ttactttttt 240  
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 tttttttatt ttttttttta tttttattta atttttattt ttatttttat ttttttttta 420  
 ttttttttta tttttttttt tttttttttt ttctttactt attttttat 469

<210> 12606  
 <211> 249  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-007-Q1-K1-B5  
 <400> 12606

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 aggacctggt cacaagcagc gggaggctct tccccgaaa gaaggcggaa ggtgctgacg 120  
 agagcgggga gaagctgtcc aagggtgcagc tgaatggtaa agcttaggaa aggattgcga 180  
 gagctgctgg aagtgaccac gggtacaagt aaataaatag aataaggcga cagattgcat 240  
 caccgtgtt 249

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 <213> Zea mays  
  
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 acctcgccca aatctgtttc cactgctttg acggcgagaa cgtggagagt gctcctctcc 180  
 tatgaagaag gactacaaac tggctaattc tctatgctgg gaggaggaac cggatgccat 240  
 ggaggagaag gcgggagtgct ttgatgagta agacgggctt ctggggtcga tttgcttctg 300  
 agttgtttat tttatatcgt cgcaatttcg tggttgtcgt ttggttattc tgtgaagcag 360  
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 cca 423

<210> 12608  
 <211> 197  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-D1  
  
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 cgaccctac gagaacagcc tcaacttgcg cgtcgctctc tacatcatcc cctacgtcgg 120  
 cctcaccggc tacgtcggcg ccaaccccag gctcctcacc cttcaggcca gaaagctgct 180  
 ggccgggctg ctgtcgg 197

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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-D7  
  
 <400> 12609

aattctatatt ttaagaatct aaaaatgtac tatcttatct ggggcaagcc acaaacatca 60  
gacaaaaaac tttattattg aactataact cataagaaat gtaaaagagg gcaccaccaa 120  
tgatggggtg ttggtagaac actgctaggt ttgtcaaagc aagttgtctg 170

<210> 12610

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-E10

<400> 12610

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gacatttggga atgcttctcc tgccttggct gtgcctgcag tgcaggggga agtgagtcct 180  
gggttggcac ttgcccgcgc tgatggcggt actcaactgg acgaacgtga aatgaagaga 240  
aggatcggcg ttaaaatggt attgtgaagg gagaggtttt taagcaaaat actgtaccgt 300  
cgttttgcca tcgagtatat ttgacctcg attatataga tcacattaaa tttttggagc 360  
atcaatttta t 371

<210> 12611

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-E2

<400> 12611

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agaaagcaca atagtgtacc aacaatggca gccaaaatat tttgcctcct tatgtcctt 120  
ggcttttctg caagtgtgc taccgcgacc attttccgc aatgtctaca tgcttctata 180  
gcttcccttt tttcccgta cctcttacca tctgtgtttt cggtatgtga ataccatat 240  
ttttaaccct atatgattca acaggcaatc tcaactgtct tttatctag tttactattg 300  
tttttttaat atttatcatt tttattacat tattttctct ttgttgcat tatttgcctt 360  
attttttct ttgttcatac atcttttttt tctttttttt tgttattctt ttttaatttt 420

cttatttttta tattttttatt tttctaatta atttt 455

<210> 12612  
<211> 270  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-E6

<400> 12612

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ccatcaatca tcattcatct tagtagtata ggcaccaaat caaatctgca tcatcaatta 120  
tctaactcca aaaacatga agctgggtgct tgtgggttctt gctttcattg ctttagtatt 180  
aagtgtttat tgtacacaga caggccgttg tctctgtggt caacaacaat atcttgagca 240  
gtaacatttt ttatatctta catctattcc 270

<210> 12613  
<211> 437  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-E8

<400> 12613

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acctaatagc agctgggttat gaagaaaaag aagtagatca cgagaagcgt aatgaactcc 120  
accaaaagtg gcttcaacaa caggatgctg ctgaaacaaa taatgtttatc caaaggctga 180  
agtttgggtca ccgggagcaa aaagaatcag catatgaaga tgaagatgaa gacgaagacg 240  
aagatgaaga tgaagatgaa gatgtagctg attgtgagga aggatcacao aatgaagatt 300  
taactccagc aaatattgtg cgacaaaatt cagagaaggc aaaacagatg attgcaaaga 360  
tgtttgaaga tgacaatgat acttatgagc actcggatga tgaggaaata gaagagcatt 420  
tggctcgtca gcgcatt 437

<210> 12614  
<211> 323  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-F3

<400> 12614

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attcacaatg gcgaccaaag tattttttccc tccgtatgct ccttgctcta tctgcatgtg 120  
ttgcttacgc gacaatttat acacaatgct tacaagctcc tatatctttc ctttattatc 180  
tcataccttg catcaatgat agcttcagta tgtgaaaacc catctcttca accctatagg 240  
ctccaacaag caatcgagc atgcaacata cctttatcaa ccttgtttca acaatcgtca 300  
gtcctatctt aggtgcattc att 323

<210> 12615

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-G3

<400> 12615

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gtcgttccaa atccatgcat gctcgtctgc tcatttccgc agcgatgtaa cacggatgtc 120  
caagatcaag atcgggatca atgggctcgg caggatcgga cggctgatgg ccagggcgac 180  
cctgcatagt gacaacttca cgctcgtaag cgggcaagac tgcttaatca gcacagaata 240  
catgtcctac atgaccaagt acgacactgt gcacggactg tggacgcact ctgcaaccaa 300  
tgccaagtga ctgcaaaact cctgttcggt tagcgagaag gatgttgccct gtgttagtc 359

<210> 12616

<211> 120

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-G4

<400> 12616

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agggaggggtc ggcgcatgag atctggacga cagaaccttc gaggcgtctg cagagcctga 120

<210> 12617

<211> 429  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-H12  
  
 <400> 12617  
  
 accaaggcca aaacattttt aaaatagtaa aacaaagcgg gaaaattgga acatgaaact 60  
 caacttgata tggggcttca atgaagcatc taatctatgc tatgagaaga atcgacgtaa 120  
 aaagaataag aagaatcaac acaatgagtc catggagcca ataccatttt ggggtggaagc 180  
 cggaatcatc atgactaaga acctatactg ccagggcgcc agaaaccctt ggtggcaaga 240  
 agaaattgat gtttgacaat tgtagtcttg taatgcaaag acctgagaac aggggtccatc 300  
 tttcttatca tgtctatagt gtcttgacgc acaaaccatc taccaggtct aagtattctg 360  
 tcaatttcag ctgcaacttc aatgatgtgg caccttttcg taagggggccc taagagataa 420  
 ctcatgtga 429

<210> 12618  
 <211> 438  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-008-Q1-K1-A11  
  
 <400> 12618  
  
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 cgtttgatct tcgctggcaa gcagctggag gatggccgca cccttgcgga ttacaacatc 120  
 cagaaggaga gcaccctcca cctggtgctc cgtctcaggg gtggtatgca gatctttgtg 180  
 aagacactca ctggcaagac aatcaccctt gaggtggagt cttcggatac cattgacaat 240  
 gtcaaggcca agatccagga caaggagggc atcccacccg accagcagcg cctcatcttc 300  
 gccggcaagc agctggagga tggccgcacc ctggcggatt acaacatcca gaatgagagc 360  
 actcttcacc ttgtgcttcg tcttaagggg tggcatgcat atttttgtga agactttgac 420  
 tggcaagacc attacctt 438

<210> 12619  
 <211> 332  
 <212> DNA



<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-A4

<400> 12619

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tgctgctacg acgaccatTTt tcccgcatTTg ctcacaagct cctatagctt ctcttctttc 180

cccatacctt tcaccagcgt tgtcttcagt atgtgaaaac ccaattcttc aaccctacag 240

gatccaatat gcaatcacag caggcatctt aattttatca cccttgTTTT ttcaacaatc 300

attagtgcta attacataat tacctttggt gc 332

<210> 12620

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-B1

<400> 12620

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gagtggcctt aatggcattc atgttgaact ccaggccaca gatgctagtg aaatcagcct 120

cgatgagatc aaggatcggg cacgctaggg gcaccgtcat cgcgagtttc atggtcacgc 180

atcatggact cgctactac tgtggatttg tacgccatta tagacttggt gctgcgaaag 240

actgctttgg tgatttgtgg gtatgatgct gtgtaaaaa 279

<210> 12621

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-B6

<400> 12621

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atTTgaggag catgctgaga aggcaaagac cttgcctgag aacacgagca atgagaacaa 120

gctgaccta tacgggctct acaagcaagc cacggttggg gatgtgaata ccgatcgtcc 180

gggcatattc taccaaaagg acagggccaa ttgggatgcc tggaaggctg ttgaatgcaa 240  
atcgaaggat gattcgatga atgactacat caccaagggtg aagcagctcc aggaggaggc 300  
tgccgccttt taaaagtctt gtaatagtgt tgccaaacag ctatttgtca gatgagcttt 360  
gtgccatttc cttaataggt gtatatcatt cgatccattg gggatctgtg aaccatgtac 420  
ctgtttatgt 430

<210> 12622  
<211> 249  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-C8

<400> 12622

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cgaggtagga gaatgtctac atggccatgc tggcatattt gtccgaaagg tatgaataga 180  
tggttgagta tatggagaat gtgtctaata ctgtatatgt ggaagtgtc actgttgagg 240  
agcgtaact 249

<210> 12623  
<211> 62  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-D10

<400> 12623

ggccggaatc ccgggtcgac ccagcgttcg ggaacgtggg ctcgcatatc atggacaacc 60  
tg 62

<210> 12624  
<211> 264  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-D2

<400> 12624

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 aggttactgt aagtgggtcc tacaacgatg ctgaagctgc taaaattgct cgttcagtat 180  
 catcttcttt tttggttaaa gccgctatat ttggaagaga cccaaattgg ggacgaattg 240  
 cttgetcagt tggttattca ggca 264

<210> 12625  
 <211> 349  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-008-Q1-K1-D4  
 <400> 12625

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 acccgcaaga atcaggggca gtcaaccaac tggcatcatt gaactctccg gcttatgtac 120  
 agcagcaaca actactacca ttcaggcagc taagtgggtg gagccctgct gccttcttga 180  
 cacatcaaca gttattgccg tgctaccggc acgctgcgcc taacgctggc accctcttac 240  
 aactgcaaca atttctgcc a ttcaaccaac ttgctttgac aaaccagca gcgtgggacc 300  
 gacaacccat gagtgggtgg gccctcagat agagatctta tgagttata 349

<210> 12626  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-008-Q1-K1-E12  
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 taccttcatt gttgcaaaat ttgatggcat tcttgggcta ggctttcaag aaatctctgt 180  
 tgggaatgca acaccagtgt ggtataacat ggtgaaacaa ggtctcatca gcgaccctgt 240  
 tttctctttc tggtttaacc gacatgctga tgaaggagaa ggtgggtgaaa ttgtgtttgg 300  
 tggaatggat tctagccact acaagggtga tcacacgttt gtcccagtc ctcgttaagg 360

gatactggca atttaacatg ggtgatgtcc tggttgatgg aaagcccact tgtttt 416

<210> 12627

<211> 219

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-F10

<400> 12627

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cctttctcct actgaatgaa tgaatcatta ttggccttgc ttgcttcaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagaaa 180

aatacaacac taataaaata cgacataaaa acaacaaca 219

<210> 12628

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-F5

<400> 12628

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ccaaaccag cgagcgaact ggaccccgcg agctattggc agcaccctat actagcacca 120

ctgagccagc tagctacagc aggcccagcg aaccagggga cacagcaaca gcggccgcgc 180

gagctaccag caacaggcag cgaacctcgc agaccctctc acaactgcaa caatgggcga 240

ccatagacca a 251

<210> 12629

<211> 69

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-F9

<400> 12629

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gtgatatct 69

<210> 12630  
<211> 172  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-A5

<400> 12630

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atgcaccaaaa tcaaatgtac ggggtcaatt atctaactgc aaaaaccatg aagctgggtgc 120  
atgtggttct tgcttatatt gctttagaat caagtgtatc tagtacacat ac 172

<210> 12631  
<211> 414  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-A7

<400> 12631

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agctagtttg tgccctctcc aaagagtgtc catcaatacg attccagaac gatatgtatt 120  
ggctagtgtt tgctgttaac atcatagcgg cctgtatgtt caaataatgg agcgagtatt 180  
tctgatgagt ttgagttgtc gggggctgtg gaactttcaa acatggcgat acgttataat 240  
gtcgttttgc tagatgctat gctttcatcg tggcttgga atcgggggtct tgtcaagttt 300  
cagctcacag acggatctgt aaatggtact gaaccctaca tcttatgttt tctgttaaaa 360  
aaaaaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa atataaaaaa tatt 414

<210> 12632  
<211> 451  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-009-Q1-K1-B1

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gtgtttattt gtaggtgtta tgtatataaa ggggctaacc gctaacgtgt tatagataat 120

tatcttagcc atcattgtct cttttcctaa ggttacagac gtctaagaca gtcacgaat 180  
catcaaagta tgagaccctc actacagata agctttttca gcgagttcaa gttcatagaa 240  
attaatcact agacttgga accctagtgc atccaccata agccttgtct taagaggtga 300  
tatctcttta gcttggcact tgttgtcagt cgtttttgca gcttcacaac aatgatatga 360  
atcggcggtg tggcacgaac aaggacgcct gcttttacta tacagacctc gactatttca 420  
tcgccaacta tttcaagatg aagggaagt c 451

<210> 12633

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-B11

<400> 12633

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aagatcatag ctcacggaat caactgtttc atcaacaggc agttgatcta taacttccct 120  
gaggaactct ttgctgacgc tggcatactt gcaattgagc atgctgactt tgagggcatt 180  
gaacgtctgg ctcttggtac tgggtggtgag atcgcatcaa cttttgataa tccagattct 240  
gttaagcttg gtcactgcaa ggtaattgaa gagattatga ttggggagga cagggttaatt 300  
catttctctg gggtcgcgat ggggcaggct tgcaccattg tcctaagggg ggctagttag 360  
catgtgcttg atgaggcaga gagatccttg catgatgcct tgtgtgtgct gtcccagaca 420  
gtaaatgata cccg 434

<210> 12634

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-B12

<400> 12634

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tcgtcgtcta gcagcagcca ccgcgcctc atcctcgag ccgcgcctc gctctccgtg 120  
ctcgcggtg ccagcgccag cgccgggacc tcctgcgtgc cgggggtgggc catcccgac 180

aacccgctcc cgagctgccg ctggtacgtg accagccgga cctgcggcat cgggccgcgc 240  
ctcccgtggc cggagctgaa gaggagatgc tgccgggagc tggcggacat cccggcgtag 300  
tgccggtgca cggcgctgag catcctcatg gacggcgcca tcccgccggg cccggacgcg 360  
cagctggagg gccgcctaga ggacctgccg ggctgcccgc gggaggt 407

<210> 12635

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-B2

<400> 12635

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cgcttcttgc gcttttttgc agcgcaacaa atgcgttcat tattccacaa tgctcacttg 120  
ctccaagttc cattattaca cagttcctcc caccagttac ttcaatgggc ttcgaacacc 180  
cagctgtgca agcctatagg ctacaacaag caattgcggc gagcgtctta caacaaccaa 240  
tttcccagtt gcaacaacaa tccttggcac atctaacaat acaaaccatc gcaacgcaac 300  
agcaacaaca attcctacca gcactgagcc acctagccat ggtgaaccct gccgcctact 360  
tgcaacagca gttgcttgca tcaaaccac ttgctctggc aaacgtagtt gcaaaccagc 420  
cacaacaaca gctgcaacag tttctgccag c 451

<210> 12636

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-B4

<400> 12636

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cattagcaac agcctagcaa caatggctac caagatatta tccctacttg cagcttcttg 120  
cgctttttgc gagcgcaaca aatgcgttca ttattccaca atgctcactt gctccaagtt 180  
ccattattac acagttacta ccaccagtta cttcaatggg ctacgaacac ccacctgtgc 240  
aagcctatag gctacaacaa gcaattgatg agagcgtctt accacaacct attttccaga 300

tgcaacaaca acacttggca catgtaacat tacaaaccat ctcaacgcat cagtatcaac 360  
aatcctacc agcactgtac cacctagcca tgggtgaaacc tgatgcctac ttgcaacaac 420  
agttgcttgc attaaaccca cttgctctgg caa 453

<210> 12637

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-B5

<400> 12637

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aaatatcgcg ctgctttctt tttattgggg ttcgttttta agctttgttt ttggccgtga 120  
aataaaaaata gttgctgtac taagaaaaaa gagcaatctc atttatggat atgaaatttt 180  
acctgaagcc attaaaaaaa aagggcggggc gttctaaagg gtcccagctt tactacgcct 240  
tccttcgacc gtatagcctt tttttagggg cacctaaatt taatt 285

<210> 12638

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-C11

<400> 12638

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taataaagaa aatagaaaat ttagaaaaaa gaaaaaaaaa actaaaaaaaa taaaaataaa 120  
aaaataggaa ataaaagaaa aaatcaaaag aagaaaaatt taaagtcaag caaaaagaat 180  
acagaaaaag aaataaaaaa atgaaaaata aaagaaaaga gattgataaa aaataaaaaa 240  
aagaaaaaaa gatagataaa aagatataaa gataacaaat aaagtaacaa ttcataagga 300  
atttaaaaaa taaaaataat aaagaaaaat ataataaaca agtaataaaa gaaaaaaaaa 360  
aaaggaaaat gtgaaatata aacaagaaaa aataagaaaa aaataaaatc aataaaaaaa 420  
aggaaaaaat aataataaa 439



<210> 12639  
<211> 212  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-C3

<400> 12639

gtaatcataa agcagccctg atcggtttg actcgatgaa tcacttcttg attgaataag 60  
cgaagaacgc cagtaagaat tacagccaat aatctgtaca catgatcttc aattcagggg 120  
gaaactgaac tgatcgaaaa gatctgatgg attctgattt tgcggtgcttg tcttcctcga 180  
tcttgccagc gaagaggacc catcattatt gt 212

<210> 12640  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-D11

<400> 12640

accaaggcgt ccgctggcta ccaagcttcc aaggatgact tggctgtcta cacttcgttt 60  
tcgtctgctc cctcgtccaa gtatatcaac gtagcaaggt ggtttaatca cattgatgcg 120  
ctcgtgagggc tgagcggaat tactgcagag ggccaagggtg tgaaggttga atcgtcagca 180  
gttccttcag cccaactcc agatgttgct gaagcacagg cccagttgc tgaggaggac 240  
gacgacgatg atgttgacct ttttggtgag gagaccgaag atgagaagaa ggctgctgaa 300  
gagcgtgctg cagctgccaa ggcttctggc aagaagaaag aatctgggaa gtcacagtt 360  
ttacttgatg tgaagccatg ggacgatgag actgacatgg ccaagctcga ggaagctgtt 420  
aggagtgt 428

<210> 12641  
<211> 62  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-D3

<400> 12641

tcgacccacg cgtacggggc gtggggcgct acgttgagc cgtttttgc tggggcttct 60

tc

62

<210> 12642  
<211> 382  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-009-Q1-K1-D9  
  
<400> 12642

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ggacgaccgc gtgagcgccc cggaggcggtt ggtcgacgcg ggccaccgc gtcggtacaa 120  
gccgttcaac tacgacgact accggagggt cgggtgtcc accggcgagc gcgcaggcga 180  
ggcgctcgcg cggatggcgg cgtgacgtcg tcacgcacgt gcaagccgtt aattataggc 240  
tcgcgcatgc atacgcctac acgtacgaga ggttgtctcg ttaagccgtt ctattaaaat 300  
gtgtggggga gaaagatgac taccgtggtg ccatgtggat tgctatcggg tctgatcaat 360  
aaaatcttgc aacacttgca ac 382

<210> 12643  
<211> 442  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-009-Q1-K1-E5  
  
<400> 12643

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cactggcacc gcgaggagcg ctcccacggc aggttctggc gccagttccg cctccccgag 120  
aacgccgacc tcgactccgt cggcgccagc ctcgacaacg gcgtcctcac cgtgcgggttc 180  
cggaagctgg cccccgagca ggtcaagggc ccgcgcgtcg ttgggattgc cgggggagac 240  
ggtgacggcg acgcgaagaa gagtattggc ggcggcgccg gggatgggtca tcatcagacc 300  
aagaaggtgg agctctgaac agtcaaacga ggggtgttcg cgtttttttt tttttttggg 360  
tatgttcttt atgttccacg acgtatccgg tatctccacc tgtattgtat ggagaggcag 420  
agaaagtgtg ccatcttgac tg 442

<210> 12644  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-E8

<400> 12644

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 agttcgaacc tctactagcc ggcgacagcg gcggtggagc gcgggatacc cggagatgcc 120  
 agcgcctgtct gcggttgctg cggccgtaga gaggctacag gcagcggcgc aggacgccgc 180  
 caagtccctcg tcgcgctcgg ccggcgccctt ctccgagcag gcgcagcagg ccctcgtgtc 240  
 caggaccgcc ggggttcaca ctcaagaaaa ggctgcgcag atgggctgct agactgctga 300  
 agagaattaa ggacgacgac tattgactaa tgcgatcttt tctcattgt ctttgaggtt 360  
 tgttcagaaa tcagaactat ggctactacg tacctcagca tcttgtgtag ccaactgttt 420  
 ttgtgccttc acatatttgc tatg 444

<210> 12645  
 <211> 401  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-009-Q1-K1-F12

<400> 12645

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 tgtaccggcc acaacttccg gggtttctta agaacattgg tggatcttct gatcaatggg 120  
 ataaccaat tcttgatcaa cttgagaact ttgaacctaa caatccaaaa atgccgcagc 180  
 aatttgcgca aagtggcatg acttccgagg aagtggatc gaaaataatg gcaaaccag 240  
 atgtagctgt cgcattccag aatccaaaaa tacagacagc catcatggac tgctcgcaaa 300  
 accctcttaa cattgtaaag taccaaaacg acaaggaagt catggatgtt ttcataga 360  
 tatcacagat cttnccccaa atcaacggct agctggctct c 401

<210> 12646  
 <211> 414

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-009-Q1-K1-F2  
 <400> 12646  
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 tctgtatcta gatcgtctgc tgaaacagca aaggagaagc cctctgaggc aacttctgtg 120  
 atctgcaagc taactgagga gaaaatgtct gctgttcagc agaaccagaa attacgccaa 180  
 gagctggagc ttctacggaa agagagcagc acaaccggcg gcggtttctc catcaccttc 240  
 ttgtttgtcg agggcctact gggcatcgtc gttggctaca tgcttaagag aacatagtgg 300  
 aacggtgtct ccagcagatc tctactactc ccattaaagg acacccaccc accccacagg 360  
 tggcgtggta tgccctctctc tccccatgtg ttttcgctcc taatcggagc gcc 414

<210> 12647  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-009-Q1-K1-F4  
 <400> 12647  
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 tcagcaacag cagttttcttc cattcaacca actagctgca ttgaactctg ctgcttattt 120  
 gcaacaacaa ctaccattca gccagctagc tgctgcctac ccccaacaat ttcttccatt 180  
 caaccaactg gcatcattga actctcctgc ttatttacag cagcaacaac tactaccatt 240  
 cagccagcta gctgggtgtga gccctgctgc cttcttgaca caacaacagt tattgccgtt 300  
 ctacctgcac gctgcgccta acgctggcac cctcttaciaa ctgcaacaat tgctgccatt 360  
 taaccaactt gctttgacaa acccagcagc gttctaccaa caaccocatca ttgggtggtgc 420  
 cctctt 426

<210> 12648  
 <211> 445  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-F6

<400> 12648

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ggcgtccgag cagggagtcg tgatcgctg ccacagcaag gctgagtttg acgcccacat 120  
gaccaaggcc caggaagccg gcaagctggt ggtcattgac ttcactgccg cctggtgcgg 180  
tccatgccgc gccatcgccc cactgttcgt cgaacacgcc aagaagttca ctcaggtcgt 240  
gttcctgaag gtggacgtgg acgaagtga ggaagtcacc gcggcctacg aggtcgaggc 300  
gatgccgacc ttccacttcg tcaagaacgg caagacggtc gcgaccatcg tgggtgccag 360  
gaaggacgag ctcttgcccc agatcgagaa gcatgctgcg cctgcgcctg cgtctgcgtc 420  
tgcctaaagg agatcagatc aatcg 445

<210> 12649

<211> 303

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-009-Q1-K1-G10

<400> 12649

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caacaaccta acaacaatgg ctaccaagat attattcctc cttgcgcttc ttgcgctttt 120  
tgcgagcgca acaaatgcgt ncattattcc acaatgctca cttgctccta gttccattat 180  
tccacagttc ctcccaccag ttacttcaat ggccttcgaa caccagctg tgcaagccta 240  
taggctacaa caagcgattg cagcgaacgt cttacaacaa ccaattgccc aattgcaaca 300  
aca 303

<210> 12650

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-G11

<400> 12650

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gaggagacga ccccatctc aaggctcagg tcgagggtc ctctctctct accatctccg 120  
 ttgatccca tcgccccgcc gccgccatgg cgtttctcgc gcgggcgctg cggcagtcca 180  
 actggcgctt gtcgtcgcgc tgccccgccg tggccgcctc ctgccgttgg atctccccga 240  
 ccgccgccgc gggatcgccg gaggccggcg cggcgggtgg gtctgccgac ccggagctgc 300  
 ctccgccgcg ggagcccgtt ggccggcgccc gcgtggagct tctctctaac ccggaggacg 360  
 cgctcgaggt attcgtggat ggccatgcgg tcgggatccc caaggtgttc accgtgctcc 420  
 aggcctgcga ggtcgccggc gtcgacatcc cgc 453

<210> 12651

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-G2

<400> 12651

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 atgtccttgc gtctttctgc aagtgtgct acggcgacca ttttcccgca atgtcacaa 120  
 gtcctatag ctctccttct tccccgtac ctctcaccag tgttgtcttc agtatgtgaa 180  
 aaccaattc ttcaacccta caggatccaa catgcaattg catcaggcat cttaccttta 240  
 tcacccttgc tctccaaca atcatcagcc ctattacagc agttaccttt ggtgcattta 300  
 ttggcacaaa acatcagggc acaacaactc gtgctagcaa accttgctgc ctactctcag 360  
 caacaacagt tacctttggt gcatttggtg gcacaaaaca tcagggcaca acaactacaa 420  
 caactcgtgc tag 433

<210> 12652

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-009-Q1-K1-G9

<400> 12652

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atgctccttg gtctttctgc aagtgttgct accgcaacca ttttcccaca atgctcacia 120  
 gctcctatag cttcccttct tccccatac ctctcaccag cgggtgtcttc aatgtgtgaa 180  
 aaccaattg ttcaacccta caggatccaa caggcaatcg caacaggcat cttaccatta 240  
 tcacccttgt tcctccaaca accgtcagcc ctattacagc agttaccttt ggtccatttg 300  
 gtggcacana acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgtgtgca 360  
 tactctcagc aacatcagtt tcttccattc aaccaactgg ctgcattgaa ctctgtgtgt 420  
 tat 423

<210> 12653  
 <211> 432  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-009-Q1-K1-H10  
 <400> 12653

cacgcgtccg tgctgatggc aacggcacca tcgatttccc agagtttctc aaccttatgg 60  
 ctcgcaagat gaaggacacc gactctgagg aagagctcaa ggaggccttc cgtgtgtttg 120  
 acaaggacca gaacggcttc atctcggccg ccgagctccg ccatgtcatg acaaactctg 180  
 gtgagaagct aactgatgag gaggtggacg agatgatccg tgaggctgat gtcgatggtg 240  
 atggccagat caactacgag gagtttgtca aggtcatgat ggccaagtga gccacagaac 300  
 cataatctga aggcagagaa gattatgcat tgcattattg tcaagatgca actttttatt 360  
 ccatcgactt ctagtgaac attctgctag ttgtagttgc tgaaaaaggc aatgtagttc 420  
 ctgctttggt ct 432

<210> 12654  
 <211> 245  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-009-Q1-K1-H3  
 <400> 12654

aagaagttat atttccaaat tctaattgtc taaaaaaaaa aaaaaaaaaa aaaaaaaaaag 60  
 gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaata taaaaaataa 120

aaaaaaaaa aaaaaaaaaa agcaaaaaaaaa aaaatataaa aatagtgata actaaaaaaaa 180  
ataaaatagg gcgggcgattt acaattttat gactgggaaa tctttataat aaccaaacta 240  
aattg 245

<210> 12655  
<211> 413  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-A11

<400> 12655

ttcaccaca cgctggcat agagatgtcg gctgcagagg cgaaggcggc ggcggtcccg 60  
gagtctgtgc tgcggaagcg caagcgggag gagcaatggg caacggacaa gaaggagaag 120  
gcgctcgcgg acaggaagaa tgcgctcgag agccgcaaga tcatcttcgc ccgcgccaag 180  
cagtacgccg aggagtacca cgcccaggag aaggagcttg tgcagctcaa gcgtgaggcc 240  
cggttgaagg gtgggttcta tgtgagccca gaggccaagc ttctgtttga gggtcgcac 300  
cgtggtatca atgccatgca cccaagacc cgcaagatct tgcagctcct gcgattgagg 360  
cagatcttca acggtgtctt actcaaggtt aacaaggcaa ccattaacat gct 413

<210> 12656  
<211> 342  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-A12

<400> 12656

taccggtttc ggattcccg gtcgaccccg cgtccgagca agcggggatg tgggatgcag 60  
tgaatgacgg gctcgcgaac ctcaacatca gccagggcac cgtcctgacg ccccgggcgg 120  
tgcaggccgt ctgcgactcc ttcccggcgc tgcacacctg ccccgacagg cactccctga 180  
tcatcagtgg ctgcctcagc ctacgtgag cccactgcgc ctgcgcccac caccacacc 240  
gtgccaggag agccctgatg gccaacatg cgtactaata aacatgttgg tggcagtgc 300  
ctgaaagtgc acgggaatgg ggacgcatgc cgggggggtg at 342

<210> 12657



<211> 223  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-010-Q1-K1-A4  
  
 <400> 12657  
  
 gccgtaccgg tctcggattc ccgggtcgac tccacgcgtc cgacttgaac ggaggatttc 60  
 cgggtctgaat aatataaatg cacgcttgca actatatcca tggaataaga atgggcggcc 120  
 gatctaacgg atccaagttt cagtactgca tgcattgcaac gacataaata ttatatagag 180  
 taacctaaat gcaatccact gtccgtgatt caacaacata ttc 223

<210> 12658  
 <211> 137  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-010-Q1-K1-A9  
  
 <400> 12658  
  
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 cctccccctc tcggttcggg ttacgggatt cgcgaggac tagcggggat tcgggatcaa 120  
 gagatcgagc ggatcag 137

<210> 12659  
 <211> 430  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-010-Q1-K1-C6  
  
 <400> 12659  
  
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 cagaggtcgg gccggtggcg gtggcggagg cgcggacgtg ccagtcgcag agccacaggt 120  
 tccggggccc ctgcctccgc cggccaact gcgccaacgt ctgcaggacc gaggggttcc 180  
 ccggcggcag gtgccgcggc ttccgccgcc gctgcttctg caccacgcac tgccactgat 240  
 tcgctcgccc agcggccggc tggcgtcgcc gtcgatcgcg cgcgtcgca ccagtccatg 300  
 gctccatgca tgaataaaa ggggtgtcgg tttgtgatgc caaattgtat cctctcgtcg 360

tgtgttgaag cgttcgatcg tccgtctagt agtgtgcctg tgagcagcgg cgtgctgttg 420  
tacgtacgtc 430

<210> 12660  
<211> 447  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-D1

<400> 12660

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gcgatggtag ctgacgcgaa ggaagatggg attgagtaag tgagctatta aacttgttgc 120  
ttatagacag caatgcaact accatgattg atccagatag ctgatgtgag acctgtagcc 180  
tttttgacac aacaacagtt gaggccgtta tacctgtacg ctgcatctaa cgctgtcacc 240  
atattacaac tgcaacaatc gctgtcatta aaccaacttg ctttgacaaa cacaacaacg 300  
ttataccaac aacccatcat tggcgggtgcc ctatttttaga ttgcttatga gttatagttc 360  
aataatgaag ttttttggaa gatgtttgtg gcttcccaga tataagaaag cacatttcta 420  
gattctataa ataattattaa tttttttt 447

<210> 12661  
<211> 171  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-E6

<400> 12661

acgtccgcga tctacaacta gtggacgcgt gtgctaagtt atttgtggac acatcaccaa 60  
tagaaaggct acgagtaaatt gttgatactt tctaaacgaa ttaaactgtt tttaagctat 120  
tgggtgatct tggagtttct tggggaaaag agttcgagca cttttaataa t 171

<210> 12662  
<211> 423  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-E9

<400> 12662

ttcaaaactt cgacatgctc ctagtgtcca ctttcaagag agagttcctg acacagaaat 60

acctgagcaa gatgaagacc aagatgatcc agatgaacga catgatcctg actctgatat 120

ggaagtggat gatcacaagg ctgtggaaga gtcatcgagg aggagcattc taggtataaa 180

aatcaagaga gaatttggtg aaaatgcgac cagagtacag gatggtggca gagtcgcatc 240

tgaacataga ggactggaac ccatggcaga agacatcggt tcctccaagc aagctcctgc 300

agatgccagt gcaatggcca tcgatgaacc aagcaatgtc aagaatgaac ctgagagctc 360

aactaaattg caaggccaag cagctgcgta ccacaagcca tagctgcgac catcaagagt 420

tgc 423

<210> 12663

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-F3

<400> 12663

aaaaaaaaa aaaaaaaaaa aaaaaaata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

ataaaaagcg aaacgaaa 78

<210> 12664

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-F7

<400> 12664

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tgtggccaac cagaaataaa aagttacatt tccaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaa aaaaaaaaaa aaataaaaaa aaaagcacia aatataaaaa aagaagcctc 180

ctaaaataaa aactatggtc tctgctatta cagaataagc ctattctaca ttatgatggg 240

ccattataag tgcacattga tattata 267

<210> 12665

<211> 214  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-010-Q1-K1-G5  
  
 <400> 12665  
  
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 attcatgata tttgggaaat ctctctatc catctctctc tatctatata tgtaataatg 120  
 cagtaagacg acacacatta tcatgtgtgg tatgaccaat aatatatgca tggtcataat 180  
 aaagttttgg ttttaaaaaa gaaaatacac gatt 214

<210> 12666  
 <211> 354  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-010-Q1-K1-G8  
  
 <400> 12666  
  
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 atcaccacag ccacggcgac atggagacat cgcccatggg cgtgtggctg agcgcgatgg 120  
 ggtgctcgct gctggtcagt atggcgctcc ttgtctgcct cgtcctcttg ccggtcatct 180  
 tctttaaggg gaaaccgtct aaggccatag tggattcgct tgcagtgttt ggggcaggag 240  
 ctatgcttgg agattcattt cttcatcagc tggcacatgc ttttggtgga gggcattctc 300  
 actcgcatga tcatgagggt catgatcatg ctcatgctca tgaacatgca catg 354

<210> 12667  
 <211> 337  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-010-Q1-K1-G9  
  
 <400> 12667  
  
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 gtccagagtt gcgacattgt ggctttcaac aagatctaga gttcagtttc tgagtttggg 120  
 caacggcagc ggctcagctc gtcaagtttg tgctgggatg ccagtttatc ctttctagtc 180

tattacagaa acgttgttcg gagctgagtc tattataaac atcttggctc gagttttattg 240  
 ttgagtgggtg ccagtttttt tcaatatataa tttatcttaa aaacagcggc actgatgttt 300  
 ttttgtctaa agttaatgag tttgcaaaac aaatgct 337

<210> 12668  
 <211> 442  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-H10

<400> 12668

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 tagagcaatt gaaacaaatc tgctgtggat gatcagcaat ggctcacgta ctgggtgctg 120  
 tactcattta tcaactctatt cgagctcacc tttgctccgg tactcgaatg gcttctttct 180  
 ggtcttatgc aaagctgttc ttcaattgct ggtagtatt gccacagttc aatggagctg 240  
 cacatgtata tgagcatttt gtgaggccaa tgattgtaa tcagcaagtt gtaaaccatct 300  
 ggtatattcc aaagaaggat gaatcaagta gacctgatga tgtaatttca gctgcacaga 360  
 ggtacattga gcaaaatgga tcaaaagcgt ttgagaatct tgtaacaag ttaagagtt 420  
 cgaaccaag gcgctcaatt ct 442

<210> 12669  
 <211> 326  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-H8

<400> 12669

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 ccaaagcatc acgaaccggc ccatccagag gctgggtcga aagggcagcg tgataagcat 180  
 ctccaggctc atctaccatg agacctacgg cgtgctcaag atctatatcg agaacgtcat 240  
 ccgagacgcc gtaaaactaca cggagcacgc cgggcgcaag accgtcacag ccatggacgt 300  
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<210> 12670  
 <211> 279  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-011-Q1-K1-B1  
  
 <400> 12670  
  
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 gcaagagctg ggctgatctg ggcttgcggg gaggcagccc aactctgaag ttatgtttcc 120  
 ctagactgcc catgttccga ggattagcat cagcattcta gctacaaaca tttcagatat 180  
 ctttcttgta agggcaaaca ttatggcata cctagattca cttttcctgc ttgtaatttt 240  
 gatcttcatt ttgaagtaat aagtacttga gttaagggg 279

<210> 12671  
 <211> 431  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-011-Q1-K1-B12  
  
 <400> 12671  
  
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 tgctggtacc tgaaccatac gccaacattg ctcataagct cttataactt cctatatattg 180  
 cccatacctc tcaatacctg tgattaaaga ctgttaaaac ctaataatac aaacctacac 240  
 gatccaacag gctataacaa gcagtatcat aactcaatta accttgatca tccaacaact 300  
 gtcaacaata ttacagcata tacctggggc acatatgggtg acacaccata tcaacgcaca 360  
 acatctacaa catcttgcta tcagaaacca tgctagctac tctgagcaac attagttcct 420  
 accattaaaa c 431

<210> 12672  
 <211> 472  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-011-Q1-K1-B2

<400> 12672

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cccgatcaag atttgtatca agagctgtgt aagtacaaag cgtctgctcg ctattccgag 120

gacccctgaa cttgctgaag agtcctgtt gccactcgtc gcagttaaat actcccgtgg 180

aacgttcata ttccctgaag cacaaccttc cccacacaag aacttcgctg acgaggttgc 240

cttccctgaat cgcttcttcg gtggcctcaa gtccggtggc aatgcttatg tgattggtga 300

ctctgcgaag cccgggcaga agtggcacgt ctactacgcc gctgagcacc ctgaggagcc 360

tgttgttact ctatagatgt gcatgactgg gctggacaag aagaaagctt ctgtcttctt 420

caagaccact gctgatgggt actcgtctgt cgccaaggag atgaccaagc tc 472

<210> 12673

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-B9

<400> 12673

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gcgagctggt gtgagccctg ctaccttctt gacacaacca caattggtgc cgttctacca 120

gcacgctgcg cctaacgctg gcaccctctt acaactgcaa caattgctgc cattcaacca 180

acttgctttg acaaacccaa cagcattcta ccaacaaccc atcattggtg gtgccctctt 240

ttagatttct tatgagttat agttcaataa taaagttttt tgtctgatgt ttgtggcttc 300

ccagaaataa gaaagtacat ttctagattc taa 333

<210> 12674

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-C2

<400> 12674

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tttgtcaggc acttctactc gcagctatca tcgagatctc ggagctggcg tccagttgca 120

caacggcgat gacctcgctt acagttttcg cgccaagaag gccgtcctgt tcaaaccaga 180  
 taatgggttc ctaggtctga accttaaagg ggcctactt accgataaag agttgaagcc 240  
 gacgaagaca actggatccg ttgaactggc atggaccata cttgacttga aacagggcca 300  
 agacgtaagg ctcaaagttg gttacgaatt gtgtgacaag gtgccttatt tccagctcag 360  
 agagaacggg tggacgctga atgcttatat ggatgggaaa tgggatgtta gatttgaaat 420  
 gtgaatccac ttgctcagta gtgttaccaa ttctacttgt ctgtactgca cttggaa 477

<210> 12675  
 <211> 475  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-C3

<400> 12675

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 aaccgcttac atctgtaaat aagacagtga atggcagttt tgttcgacca tccaatgctg 180  
 ggggcgatgt ttatcctgtg gaatcttacg agagctcagc taaccaagta cttgatgctc 240  
 actgggggtg tctggatgat gatgatgcaa ctggactttg ctgcataacc ctctccatcc 300  
 ttgtgaatga ttgtcctggg gttctcaaca ttgtaacagg agtctttgct cgcaggggct 360  
 acaatataca gagccttgct gttggctcag ctgagaagga aggcatttca cgtattacaa 420  
 cagttgttcc tggacttgtg gaatccattg ggaaattagt tcagcaactt tacaa 475

<210> 12676  
 <211> 451  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-C4

<400> 12676

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 catttgacct tgtggagtac gaggggaagg ttgttgtaac tggacagtcg aacaacgcct 120  
 acattttccc tggatttggc ctcggtcttg ttatctctgg agccatccgt gtccacgagg 180



acatgcttct tgcgcctcg gaagcactag ctgctcaagc cacacaggag aacttcgaca 240  
 agggatcaat cttcccgccc ttcaccaaca ttagaaagat ctctgcgcgc attgccgcag 300  
 ccgtggctgc aaaagcttat gaactcgggt tggcgacccg tctgccttcc ccaaaggacc 360  
 tggtgaaata tgcacagagc tgcattgtaca ctctgttcta ccgtaactac cggtagtgtc 420  
 gctgggatca attctgcagt aataaaatat g 451

<210> 12677  
 <211> 379  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-011-Q1-K1-C7

<400> 12677

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 ggttcgtgtt atccgggatg ctgataccat gaactttgct gacattgaga aagggataaa 120  
 caaccttgca aagaaagcaa ctgagggggc gctctcaatt gatgacatgg caggtggaac 180  
 attcaccatc tccaacggtg gtgtctatgg aagcctcctc agcacaccta tcatcaaccc 240  
 tccacagtgc tctattctgg ggatgcattc cattgtgcaa cgccctgtgg ttgtgaatgg 300  
 tgacatcctt gcgaggccaa tgatgtacct tgcgctgact tacgaccaca ggttgatcga 360  
 tggcagagag gctgtcttc 379

<210> 12678  
 <211> 105  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-D1

<400> 12678

gagcgacaaa gctagctctc tccagggtat cggattctga tcaccatgcc gtccaccgt 60  
 aactccgggt ccctcgacca gaaccttgag ctcgccaagc aatgc 105

<210> 12679  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-D5

<400> 12679

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cttttgtgtg atggataaga ttatagatgg attggaacac ttcgcagcat ggcacatggc 120  
tagcctgcta gcgtgcggca cccacacaac acaacacact gctcgccaga agcgccccat 180  
gaggccaggg gaggacacga caccgccatc agccatcatc atcatctcat actcagagca 240  
tgccatggca cgcaactgac tgactgactc gaaacacaca catcgactcc gctatacttt 300  
attaagcttt ataattaact agcttctctc ggccggcctg cacggtggag cacctagctc 360  
actttccgca gttgcaagga tctcactgtc agttgcctcc atacttgac ccttcattc 419

<210> 12680

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-D9

<400> 12680

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taaaaaaaaa aaaaaaaaaa aaaaagaaaa agaaaaataa caatttatgg aaaacccaaa 120  
taaacaatca ctcttacttc catcttatta actctttttt attgccactt aatttcaatc 180  
tattgccctt tttttaacaa cattaataac ttataaaacc ctgacattac ccaatttaat 240  
cccttttaaa aacatccctt tttcctaatt tagcttacta ccaataaatc ccctttcggt 300  
ccccttcctt aaaatttact caccctaatt tacaattggg aactccctt taccctccct 360  
ttaccacct taatctcctt gctttaacat ccccttttac ccatactttt taaatcccat 420  
tagtccctta cccttttcct tttccaacaa tttc 454

<210> 12681

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-011-Q1-K1-E1

<400> 12681

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atcatactaa tttactgcac ctcacttttc cctttcagaa accttcatac tttcacacca 180

tatctatctt cacaatacat atcttattac catacatttt atcataacat taattgaact 240

atttccaata ctcttgttct tttcacatac cataattcct agtcaattga atttaccact 300

cttgcaatat tcattctgat cataatccct caaaaatttt tataccacaa tacatttaaa 360

ccttttaata cttataatca tatatttaat aaatcctatc aaattattaa atattacca 419

<210> 12682

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-F10

<400> 12682

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tgtgcgccga cgactacgtg cagaagatga ccttcgacag ctacctctac aagcgcgtcg 120

tgccgggcaa cccgctcgac gacatcaagc tcgccgtcaa caccatcggc agcctcgtca 180

gggccaccgc actgcgccg gagatggaga aggtcacctt gtgagccgcc gcccgcgacg 240

tcattgccgt cgaaatgggtg tcgcagctga tcggccggtg tattagtaga gatttgccgc 300

tgatcggggt aatttaggcc aacatgcgtg ggcagtgggc gcggagagga agagaaacaa 360

gttgtgcaag tgcagcaagt agatcaaaag tgctgcctgt ttgtatcgat ggatcctgca 420

acatatagca tat 433

<210> 12683

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-F7

<400> 12683

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tgtaccaaca atggcagcca aaatagggtg cctccgtatg ctccttggtc tttctgcaag 120  
 tgctgctacg gcgaccattt tcccgaatg ctcacaagct cctatagctt cccttcttcc 180  
 cccgtacctc tcaccagtgt tgtcttcagt atgtgaaaac ccaattcttc aaccctacag 240  
 gatccaacat gcaattgcat caggcatctt acctttatca cccttggtcc tccaacaatc 300  
 atcagcccta ttacagcagt tacctttggt gcatttattg gcacaaaaca tcagggcaca 360  
 acaactcgtg ctagcaaacc ttgtgccta ctctcagcaa caacagttac ctttggtgca 420  
 tttgttgga caaaacatca gggcacaaca actacaaca ctcgtgctag caaacct 477

<210> 12684  
 <211> 333  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-G1

<400> 12684

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 gcgacagtgt ggctttcaac aagatctaga gttcagtttc tgagattggg caacggcagc 120  
 ggctcagctc gtcaagtttg tgctgggatg ccagtttatc ccttctagtc tattacagaa 180  
 atgttggtcg gagctgagtc tattataaac atcttggtct gagtttattg ttgagtgggtg 240  
 ccagtttttt tcaatataca tttatcttaa aaacagcggg actgatgttt ttttgcctaa 300  
 agttaatgag tttgcaatgg ttctgagtct aaa 333

<210> 12685  
 <211> 450  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-G12

<400> 12685

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 ttatgctcct tggcttttct gcaagtgtg ctaccgcgac cattttcccg caatgctcac 180  
 aagctcctat agcttcctt cttcccccg acctctcacc agcgggtgtct tcggtatgtg 240

aaaacccaat tcttcaacc tataggatcc aacaggcaat cgcagctggc atcttacctt 300  
 tateaccett gttcctccaa caatcatcag cctattaca gcagttacct ttggtgcatt 360  
 tattggcaca aaacatcagg gcacaacaac tacaacaact tgtgctagca aaccttgctg 420  
 cctactctca gcaacagcag tttctttcat 450

<210> 12686  
 <211> 237  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-G6

<400> 12686

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 caactgatgg attgtttgtt taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaaa agatcaaagt 180  
 ttaaatacag atgcatgcaa tgtaataact tttaaaaagt gtacctaat ttaatta 237

<210> 12687  
 <211> 442  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-A12

<400> 12687

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 caacaacttg tgctaggaaa ccttgctgcc tactctcagc aacagcagtt tcttccattc 180  
 aaccaactgg ctgcattgaa ctctgctgct tatttgcaac aacaactacc attcagtcag 240  
 ctagctgctg cctacccccca gcaatttctt ccattcaacc aactggcagc attgaactct 300  
 gctgcttatt tacaacagca acagctacca ccattcagcc agctagctga tgtgagccct 360  
 gttgccttct tgacacaaca acagttgttg ccgtttctacc tgcacgctgc gcctaacgct 420  
 ggcaccctct tacaactgca ac 442

<210> 12688

<211> 171  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-012-Q1-K1-A2  
  
 <400> 12688

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 cgcccacgcg tccgaaagct agctctcggc ananatggga ttctgatcac catgccgtcc 120  
 accgtgaact ccggtccct cgaccagaac cttgagctcg ccaagcaatg c 171

<210> 12689  
 <211> 250  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-012-Q1-K1-A6  
  
 <400> 12689

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 gaggtggttag tggtagggta tgcangagtg ctctgcccac ggagaaggcg gggcaacaac 120  
 gccatgttat cggcggcggc ggcaagaagg cgcccgcgt ggggctgcag aagcagaact 180  
 cgtggtcgcc ggacatcgag cgcgacgagg cgtgggagcg ccggctcagg ggcattgcgc 240  
 gcggggggcac 250

<210> 12690  
 <211> 241  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-012-Q1-K1-A8  
  
 <400> 12690

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 tttttatatt tttttttatt ttttaagttt ttttaatat tttgtaaatt tttatttttt 120  
 tttttatatt taattttatt ttattttttt gttaattttt ttaaattttt ttttcattaa 180  
 aaaaaaaaaa ataaaaaaaa ttatactata aattaaaaaa aatttaaaaa aaaaatataa 240

<210> 12691  
 <211> 420  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-A9

<400> 12691

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 aagatgataa cctcaaaaag ctccgatggc gaggagtctg aggtggaaga ggcgggtggcg 180  
 atggagtcgc agaccatccg ccacatgac gaggatgact gcgccgacaa cggtatccct 240  
 ctctctaacg tcaactccaa gatcctatcc aaggtaatcg agtactgcaa caagcacgta 300  
 catgccgccg ccgccgccg cgcgcctcg aaggccggtt ccgacgacgt ggggtgccgcc 360  
 tccgccaaca gcaccgccg ctccggtgag gacctcaaga actgggatgc ggacttcgtc 420

<210> 12692  
 <211> 136  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-B1

<400> 12692

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 aaaaaagtat tgttcc 136

<210> 12693  
 <211> 258  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-C11

<400> 12693

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atttatattgc tatgaaaacc ttgtcaaggt cctgtatttc caactaaatt tatacctggt 120  
 tgaaaatttt tgagcagacc ctaaaaaaaa aaataaaaaa aaaaataaaa aaaaaaaaaa 180  
 attaaataaa aaaaagggcc ggccgtttta aaggatcaaa gttaacgtac ccttccttcc 240  
 aacgtaatac ttttttaa 258

<210> 12694  
 <211> 420  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-012-Q1-K1-C3  
 <400> 12694

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 aatgctcaca agctcctata gcttcccttc ttccccata ccttccatca atgatagctt 180  
 cagtatgtga aaaccagct cttcagccct ataggctcca acaagcaatc gcagcaagca 240  
 acataccttt atcaccttg ttgtttcaac aatcgccagc cctatctttg gtgcagtcac 300  
 tggtaaaac catcagggca cagcagctgc agcaactcgt gctacctgtg atcaaccaag 360  
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<210> 12695  
 <211> 353  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-012-Q1-K1-C8  
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 ccggcaacag tgctgccagc agcagatgag gatgatggac gtgcagtccg tcgcgcagca 180  
 gctgcagatg atgatgcaac ttgagcgtgc cgctgccgcc agcagcagcc tgtacgagcc 240  
 agctctgatg cagcagcagc agcagctgtt ggcagctcag ggtctcaacc ccatggccat 300  
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<210> 12696  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-012-Q1-K1-D1  
  
 <400> 12696  
  
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 tgtttgtggc ttcccagaat taagaaagta catttct 217

<210> 12697  
 <211> 179  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-012-Q1-K1-D3  
  
 <400> 12697  
  
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 acaaccatc atgggagggt gcatctttta gatgacatat gagatgtaat cgataatggt 120  
 gccctcatac cggcatgtgt ttcctagaaa taatcaatat attgattgac atttatctc 179

<210> 12698  
 <211> 370  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-012-Q1-K1-D5  
  
 <400> 12698  
  
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 tgcagacatt gaagcccagc caagcattgc gggatcatata gtgctgaaat ctttcttgca 120  
 caagatctac aagaggcaga agtagggtgc tcttgataa acgagctcag gagtcgttac 180  
 tccttcgcat gcttgacata accggacttc ctcacctggg tgctctagta tgatgtggag 240  
 cgtctagtta aaaaaaatcg atgtagtatg aaacaacctg cttggtctaa ttttaaccag 300

gctattaagg caaagtgctg tatcggtttg gtggaccgta tgttgcagat aataaattag 360  
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<210> 12699  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-D6

<400> 12699

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gctcgaggat tcgcacggag tgaacaaggc tgagcgtcgc ctcatccga cttccgatcc 180  
ccaacggaaa gcggagccag gaccgggagc tggagcagtt gtcttcccc ctcgtctccg 240  
tcaactggtc tttaattctc tctttacaca tatcttgta tttaattctc tcatcaccag 300  
cgtaagaaaa aaccatttga agctaaattt ttcaacaagc cacttgagaa ctaccattac 360  
atggctgtta tatttgggaa tcatcaagca actggactat ttgcaaatg caccagtgat 420  
cccctaggtt tcgacacatc tgaaagtgca tgtacatatg gtgtggg 467

<210> 12700  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-D8

<400> 12700

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cagggcgcca gcggcgtcgc atcccaagcc gctgggtggg tgcgatccgg cgttcatgga 180  
cggagcgaaa cccgcccag catgctgctc caccctgcgt gcgcaggagg catgcttgtg 240  
cgtgtacgcc aaagacccca agtttgcaaa atacatcaac aacccaaca ccgtcaaaac 300  
ctttacctcg tgccgcatag ccatcccaa atgctaagca agcgctctgc gtcgtcgctt 360  
cgcttgctct tgctcttgtg tgtaacatat ccagcttatg aataaattat gtggatc 417

<210> 12701  
 <211> 442  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-012-Q1-K1-E12  
  
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 aaatacgctc tggaattgat acacgtggaa ctgaactcga gggaattgat cgtggtgttc 180  
 tcatgcgggc tctgcggcag ttggagcaaa agggaaaggc agctatcttc aaaggcacct 240  
 ctgctgatga cgaaggcgta aagttttcgg tgtaattatt ttgcgatcct taaactggca 300  
 gactaataat ctcgttcagc cgggtgccctt gaacatggca tgacacaccc atagcctcga 360  
 tcattcagtg ccctttgaaa atggcatgac acatccttgt aaaaagcagt agggctgac 420  
 acattcttcc cgagtgggat cc 442

<210> 12702  
 <211> 285  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 nngcctgcga tcgttcgtag ccctccgtca gcagtcgagc agcngatcag tgtcggctct 120  
 acnntgcgga aagtaccaag gatgagccct catcaagaat gccctgccta cattggcatc 180  
 ccccggaan gggatatttc ttgctgctga tgaagtccaa actggcacca tnntggcaag 240  
 cgccctttcc aaagcatcaa tgttcgagat acgnnttgag gagaa 285

<210> 12703  
 <211> 311  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-012-Q1-K1-E6

<400> 12703

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gttcaaacac ttacaccca aataaggaac ttcagtgaca ttaatttttg ctgcacccaa 120

gttacatgaa ctgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggcgaccgt 240

tttaaaggat ccaagtttac ttacccttgc ttgcaacttc aaattttttt tatagggaaa 300

cctaaattaa a 311

<210> 12704

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-012-Q1-K1-F12

<400> 12704

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tgctgccttc ttactgcagc aacaggtggt ggcattccat ctacaagttg tggcaaacat 120

tgctgctttc ttgcaacaac aacaattgct gccattttac ccacagggtg tgggaaacat 180

taacgccttc ttgcaacagc aacagttgct gccattctac ccacaggatg tggcaaacaa 240

tgctgccttc ttacaacaac aacaattgct gccatttagc caacttgctt tgacgaatcc 300

taccacctta ttgcagcagc ccaccattgg tgggtgccatc ttctagattt tttatgcttt 360

atactgtaat aataaagttc tcatactgat atgtgcaact tctcagtaat aaaagattag 420

agatctatat tntaagttc 439

<210> 12705

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-F4

<400> 12705

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accacaggca atcgcaacgg gcatctgaca ttatcaccct tgttctcca acaaccgtca 120  
gccctattac agcagttacc tttgggtccat ttgggtggcac aaaacatcag ggcacaacaa 180  
ctacaacaac ttgtgctagc aaaccttgct gcatactctc agcaacatca gtttcttcca 240  
ttcaaccaac tggctgcatt gaactctgct gcttatttgc aacaacaatt accattcagc 300  
cagctagttag ctgcctaccc ccagcaatctt cttccattca accaactagc agcattgaac 360  
ttctgctgct tatttacagc agcaacaact actaccattc agccagctag ctgatgtgag 420  
ccctgctgcc ttcttgacac aacaacagtt gttgc 455

<210> 12706  
<211> 450  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 12706

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acttccggtc ttccaaaatc cggagttgag aaccagcaga gcatgcctct tctttggcat 120  
gggtgcatct ggcgtgatac ctgttcttca caagctagta ctcttctggc accaaccgga 180  
ggcattgcac acgaccggat acgaaattct gatggggctc ttctacgggc tgggagcatt 240  
ggtatatgcy gcacgggtac ctgagcgtg gatgcctgng aagtttgaca tcgccgggca 300  
caaccaccag ctgtttcacg tcttggttgg tgcccagacc tacacacact accacgcagg 360  
gcttgtgtac ctcaagtga gagacctgca aggtctgta aaggtactgc atcgttgagg 420  
atgtggatag attgtagatt ccggaattc 450

<210> 12707  
<211> 385  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-012-Q1-K1-G6  
<400> 12707

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taatggcgtc gtggtctagc atcagccacc ggggcctcat cctgcagcc gccgtcctgc 120

tctccgtgct cgcggctgcc agcgccagcg ccgggacctc ctgcgtgccg ggggtgggcca 180  
 tcccgcacaa cccgctcccg agctgccgct ggtacgtgac cagccggacc tgcagcatcg 240  
 ggccgcgcct cccgtggccg gagctgaaga ggagatgctg ccggaagctg gcggacatcc 300  
 cggcgctactg ccggtgcacg gtactgagca tctcatgga cagcgcgac cgccttgccc 360  
 cggacgcgca gctggagggc cgcct 385

<210> 12708  
 <211> 312  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-012-Q1-K1-H4

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 tacaggatcc aacatgcaat tgcagcangc atcttacctt tatcaccctt gttcctccaa 120  
 caatcatcat ccctattaca gcagttacct ttggtgcatt tattggcaca aaacatcatg 180  
 gcacaacaac tcgtgctagc aaaccttgct gcctactctc agcaacaaca ttaccttta 240  
 gtgcatttgt tgacacataa catcagatct caacaactac aacaactttt tctagcaatc 300  
 ctttctaact ac 312

<210> 12709  
 <211> 453  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 tggaaaacca gactgatcgg caaaatactt caccagagca cagcatcgag gcacgtgtca 180  
 gagaaatcga ggatggctgg tgtgatagta tcggttctgt gggagatata caagcaaac 240  
 ttctaaagag gcaggaagcg gcagctaaac gtgagcgagc catggcctat gctctagctc 300

atcagtagca agcaaattca agacaaccta cagcatttga acctgacaag aacaacttgg 360  
gctggaattg gctagagaga ttgattgctg ttcagccttg ggagaatcng ttccttggca 420  
cttacgggac agatgggatt tttgtagtta atg 453

<210> 12710  
<211> 191  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-013-Q1-K1-A10  
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agctcgaagc aggcttacga attagaaaac gaagcaaacg aacttatccg catcaagaac 120  
tatctctatg gcaagctccc ggtgcacaca ggccattctg tcgaaaaaat ccatgagaac 180  
ctgtctaggg t 191

<210> 12711  
<211> 447  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-013-Q1-K1-A12  
<400> 12711

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gcgaactcgt gggaaaaaaaa aaaaaaaaaa aagaagaaat attaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
aaaaaaaaaa aaaaaaggac caccatttta aagaatccaa tttaactttc ccttgcttac 240  
aacataaaac tttttttata tcatcccaa aattaaatta acttcccgtt ttttaaaaaa 300  
atactaattt gaaaaaccct gggataacca aattaaatca ctttgctaaa aatccccttt 360  
tcacaaattg gcgtattaca aaaaagcccc caaccaatcc cctttccaaa aaattgccaa 420  
ccttaaattg caaattgaac cccccct 447

<210> 12712  
<211> 296

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-013-Q1-K1-A3  
  
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 gtagcagtag ctggcccaaa tgcattgctgg gtgggtttat ctattgctga tgagttgttt 180  
 aagcaagatc cattcctgta ttgtactcca taagccactt ggggtgttgct ttgtattgtt 240  
 cactactgtg ttttttctat gtgtgggacc gcatctacag tactagttgc ttgtcg 296

<210> 12713  
 <211> 443  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-013-Q1-K1-A4  
  
 <400> 12713  
  
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 tcggcggcgc catggggggc ccgcgcgggg cgcccgtaga ggagatcgcc ttcgcccgcg 180  
 cgctgctcgc ctccggggcg ctccgtacca tcggtggcct gctaattggc gtcaaccgag 240  
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 ctgggttcta ctacacaagg atcgctact atgcttaca aggttacaag ggcttctctt 360  
 tttcgaacat tccaccgac tgaaggagtg tgctgctgcc tgctgggtat gaagtgggtg 420  
 ccctggttta agagtttgc gac 443

<210> 12714  
 <211> 395  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-013-Q1-K1-A6  
  
 <400> 12714  
  
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cgctcggggtt cggcattgcg gcgaggtcgg cgcaggattg caggaaggcc gacaccaacg 180  
ccgtgggtcgt gctgcaccag tccgacgccg gggagtacct ccgcaaggag gaggagctca 240  
tgtgaggtga gcgcataggc ttggctgggt aggtcatatt catgagtga ttatggaaga 300  
ttgtgcctta ctgttggtg ttccaaggct tggggcatat atatgtgtac tgaatgatta 360  
atcactgggtt atgagatgcg attattgctg ttgcc 395

<210> 12715  
<211> 445  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-A7

<400> 12715

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tgagtacaca acatcaattg atatttggtc agctggatgt gttcttgctg agctgcttct 180  
tgccagcct ctcttcctg gtgaaagtgc tgtggatcag cttgttgaga taataaagg 240  
tcttggtacc ccaacgcgcg aggaatccg atgtatgaat ccaaactaca ccgagtttag 300  
atttctcag atcaaagctc acctatggca caagattttc cacaagcgga tgctccaga 360  
agctatagat ctgcttcac gcttgctcca atattcacca aatctaagat gcactgctct 420  
tgaagcgtgt gcacatccat tcttt 445

<210> 12716  
<211> 305  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-B4

<400> 12716

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agcaccatga agtcaagggt aaggactcca aaacccttct ctttggtgag aaggaggttg 180

ctgtgttttg ctgcaggaac cctgaggaga tcccgtgggg ttcggttggg gctgaatatg 240  
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<210> 12717  
 <211> 377  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 12717

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 atggcggaca tcgcgttgct ggtggcggag cagttcgaga agacggcaag gcgaggcgcc 180  
 cccggcgggg acggcggcag cggcagcggg accggcggcg agacgaggaa cttcggggcc 240  
 gtggccaaag tgtggagctc gtgggtggag tccgcctccg ccgccgcgctc cggggtcaga 300  
 ttcaccgtcg cgggtgcagct ggagcccaag accgggctcg cgctggccgn cgccgacggc 360  
 ctcttcttcg cctagct 377

<210> 12718  
 <211> 372  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-013-Q1-K1-B6  
 <400> 12718

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 atacatacaa caaaataaac tcttctatat tttcacccta catacaattc actcccctcc 180  
 tttttacaac ttcattactt ttaaaaccct ctcatcctcc aacttaatct cttttcacca 240  
 cattccccct tctccaaatc cctaataccc aaaattcccc cacctatcgc cttttccaac 300  
 atttccccat tctaaatatc caataaaacc cccctgtat cgctcatta acctcttcca 360

ctattttaat tc

372

<210> 12719  
<211> 352  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-B9

<400> 12719

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tctcttttga gctaccatta catagttgca aactgcagaa cggcttttcg catgtgaaac 180  
ccgtttgaaa aaaataatcg gctttggata ggggtttggg gtccctccttt ccctgaaaga 240  
acgcacgcgc gtgctgctcg cggcgaagcc gtgcctgtcg ccttgccggtt gcctctagcg 300  
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<210> 12720  
<211> 414  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-C11

<400> 12720

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catcttcttg ctagtcgcaa tgaatgtaac ctattttgca cccagtgtga gaccaaacca 180  
gctgctttct gtaactattg tcgttcaagt gatcattcca cccaccgtgt aatccagata 240  
aggcgttcat cgtaccatga cgttgtgagg gtgtccgaga ttgaggatat ccttgatgtc 300  
agcgatgtgc aaacttatgt aatcaatagt gcaaggattg tattcctgaa tgagcggcca 360  
caactgcgtg cttctagtgt cccatttgt taggcaccta cattatcaac acat 414

<210> 12721  
<211> 207  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-D10

<400> 12721

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acacatacat acaacttcat aactatttat ataacatcac ctaacttcat ttcactctcc 180  
aaactcttta caacttacct aacttaa 207

<210> 12722

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-E10

<400> 12722

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ctacagacac tcgccacctt ctatgattcc ccctcaccca agatttgcta tccagcaaca 180  
gcttgctcca agcatgaggc ctgggggtcc tcatatgcc aactatcatg aaccggttgt 240  
ccaacagggc caacaggggc cacgcccacc tattacgcgt cgagcttgag cccagggaca 300  
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<210> 12723

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-E6

<400> 12723

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tgcacgatgt ggattgtgga gtgtcagttg atgatgcac atgcatgcat gcgtacgtgg 180  
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<210> 12724

<211> 280  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-013-Q1-K1-E8  
  
 <400> 12724  
  
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 aaatccccta ccatcaaaaa caacaaaagg cttttacaaa aaaaatttc taccaacacc 180  
 ccggttccaa caagtttatc ttttttttcc aacaatcatt taaataaggg gccgtctcaa 240  
 aaccgcccc aaccgcgcat ccctttcttt tcactccct 280

<210> 12725  
 <211> 223  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-013-Q1-K1-F2  
  
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 ggcggtgttc agcgggcagg tgggtggagg gccggcggag ctggtggcgg cgggcagccg 180  
 gacgccgtcg cccaagacga aggcgtcgca gcttgtgggg cgc 223

<210> 12726  
 <211> 244  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-013-Q1-K1-F6  
  
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 aaaaaccttc attccgaaa gagtacttaa aacataaccg cataaaaatt ctcatctctc 120  
 tcaactactc ccatactttc tcacctcca cccctatac aatacacatc ccctccctt 180  
 tcacgacatc tocataactt ttactccatt atctcattac aaacccctt attagtcccc 240

taat 244

<210> 12727  
<211> 431  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-F9

<400> 12727

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gttcattatt ccacaatgct cacttgctcc tagtgccatt ataccacagt tcctccgacc 180  
agttacttca atgggcttcg aacacctagc tgtgcaagcc tacaggctac aacaagcgct 240  
tgcggcgagc gtcttacaac aaccaattaa ccaattgcaa caacaatcct tggcacatct 300  
aaccatacaa accatcgcaa cacaacagca acaacagttc ctaccagcac tgagccaact 360  
agatgtggtg aaccctgtcg cctacttgca acagcaggtg cttgcatcca acccacttgc 420  
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<210> 12728  
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<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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cggcgccatg ctgacgcg tctgctcaa catgcgcgtg cacggacgga tcgccgtctg 180  
cgggctcatc tcgcagtaca acctggcgga cggggagaag gacgccgtgc gcaacctcgc 240  
cgccgtcatc tccaagcgcc tncgcctgca ggggttcate gagcccgacc acaagcacct 300  
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<210> 12729  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-013-Q1-K1-G4  
  
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cactcctttg ggcaccgcgc caacgcggtg gcaacgttcg cggtcacat actggccgcg 180
atctgcttcg ccgcctcctt ctccgacaac ttcaacaccc cgacacccac tgcctccgtt 240
aagatcttga atctaaactg gttccagaag gaggccaacg gcaacgacga ggtagcatg 300
acgctgaaca ttctggccga cctttcgtct cttttcacgt ggaacacaaa acaggtgttt 360
gtttttgtgg cagcagagta tgagactcca cagaatgctt ttgatcaaag tttcctt  417
  
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<210> 12730  
 <211> 373  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-013-Q1-K1-G9  
  
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tctatgcctc tcagctcacg gccaagccaa ggctgctgga gccagtctac ctggtggaga 180
tccaagcccc agaaaatgca cttggtggta tctacggtgt totgaaccag aagagaggtc 240
atgtctttga ggagatgcag aggccgggta ccccgctcta caacatcaag gctttcctcc 300
ctgtcatcga gtcctttggt ttctccagcc aacttgaggc cgcaaccttc tgtcaggcgt 360
tccccagtg tgt 373
  
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<210> 12731  
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 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-H1

<400> 12731

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cgcgaccaat ggaactgggc cagcaagaac ctttatggct atggatcacc tgactctatc 180  
aagcagaatg gtcaccaaac aaacggatcc gctgactcct ccaagcagaa tggccaccgc 240  
acaaacggtt caactgactc acccaagcgg aacggccacc atgcgtatgg gtctgctgac 300  
tcaccaagc gcaacgggca ctgcgttttt ggatcatcag acctcaagcc gaatggtaat 360  
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<210> 12732

<211> 91

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-H4

<400> 12732

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<210> 12733

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-A11

<400> 12733

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aattataata accctcccca atttttttaa aacatatttt ttttacaaaa aaattatcac 120  
taattttttt tttatccatt ataaataatt ttacacctta ttttttaa ataaaaataat 180  
catattaaat tttttttttt ccaaaaaaat aatattttac ctttaaattt ttttaaaaaa 240  
aatttttcac ccaaaaaaat tttttttt 267

<210> 12734



<211> 397  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 acggcaccgn cagccccgggc ggctatgaag actatgcca tcgcgaaatc gacggcgatg 120  
 aagaagacca gttccccctct cctgatcgtc ctgttcctca cagcagcagc catggcgggc 180  
 gagccggaga agcaggcggc ccccgcgga caggagacgg ccgtgcacat cgtgtacgtt 240  
 gaccgccccg aggacgccga ccctgaggag ttccacatcc gcaccctcac ccccgctctc 300  
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 ttcttcgcca agctcaccct ccagcatgtc aaggatc 397

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 <211> 276  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-014-Q1-K1-B10  
  
 <400> 12735  
  
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 tgaagctttc acatatacat cacttgcttt tatcatttca ataatttcag cttttctgtc 180  
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 atggaaacac catcattatc tataaaggaa acattt 276

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 <213> Zea mays  
  
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 <400> 12736  
  
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cacccattca tacatacaac aagatatattt taaaattata tgacctatat tacatccact 120  
 ttcctaaatt atacaacata ttaactaata aaaccctaata catacataac ttaatatcat 180  
 atcaaaacat cctcatatat ctatca 206

<210> 12737  
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 <223> Clone ID: LIB3059-014-Q1-K1-C11  
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 tccatccaca cgtccctgaa cagtagaaaa tttatacaag cattgatgca tcaaaaaaaaa 120  
 aaaaaaagct ctctcgctct atagcatcca aactaacata cccgtgcac ctacgtcata 180  
 tctcttctat agagtcacct aaatacaatt cacttatccc tca 223

<210> 12738  
 <211> 405  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-014-Q1-K1-D10  
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 ggcgaccatt ttcccgaat gtcacaagc tcctatagct tcccttcttc ccccgtaact 180  
 ctcaccagtg ttgtcttcag tatgtgaaaa cccaattctt caacctaca ggatccaaca 240  
 tgcaattgca tcaggcatct tacctttatc acccttggtc cttcaacaat catcaaccct 300  
 attacagcaa ttacctttgg tgcaattaat ggcaccaaac ctttaaggcac caccaccttt 360  
 tccaacaaac cttgcttgcc aactttatca acaacagtta ccttt 405

<210> 12739  
 <211> 406  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-D2

<400> 12739

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atgaccagct gaaggcggat gcaaaggagc gcggcgaggt catcagcacc aagaggcagc 180  
cgttgggccc caagcctggc ttcattggtg aggggactac catcgagacc gtcactccca 240  
ttccgtacga tgtggtcaat gatcttaagg gcggatacta ggttggtggt ttggtctttct 300  
acctgttcta catctgtggt actctagtgc gtacaatggt gctcacactg agcagtagta 360  
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<210> 12740

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-D4

<400> 12740

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attttgttgt tagtctttat gcataatcatt tgcggacctg atgaacactt cataagtga 180  
tcaactctcg attctaagaa ttgataattt tcacatgcgg tgggttgtaat tgtgatattt 240  
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<210> 12741

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-014-Q1-K1-D7

<400> 12741

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cggcaagcaa caaggagaag tcttgggttc ctcgccacct ctcgatcggc caggcggatc 180  
 caagaagaga tggagaagaa ggcaggacgc gagcatgtga tcgggatccc agtgaacaac 240  
 agggccttcg gcatcgagga gccggatttc tccagcaaag gcgccgccag gaacgcagcc 300  
 gccgcgggac gggctgcaaa gtccggctgg acgaccgggg acagggtcgc tcaaggcctg 360  
 aaagaacacg tggctctggg gccaaacctg tacgagaccg tgaggggcaa gctgtcgtg 420  
 gnggcgagga tcctncgggc aggcggcgt 449

<210> 12742  
 <211> 420  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-E5

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 gcgacaattt tccctcaatg ctcacaagct cctatagctt cccttcttcc ccatacctt 180  
 ccatcaatga tagcttcagt atgtgaaaac ccagctcttc agccctatag gctccaacaa 240  
 gcaatcgag caagcaacat acctttatca cccttggtgt ttcaacaatc gccagcccta 300  
 tctttggtgc agtcattggt acaaaccatc agggcacagc agctgcagca actcgtgcta 360  
 cctgtgatca accaagtagc tctggcaaac ctttctccct actctcagca acaacaattt 420

<210> 12743  
 <211> 391  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-E7

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 aagaagcgga tggacaagct tgacactgtc ttttctgcc cattctgcaa ccacgggagt 180  
 agtggtgagt gccgaattga catgaagaat ctgattggcg aagcatcttg tagaatctgt 240

caggaaaaact tcagcacaac tgttaatgca ctactgagc ctattgatat atatagtgaa 300  
 tggattgacg agtgtgagcg tgtcaacact gttgaaggcg acgatgatgc gtgagcttgc 360  
 cccatgcgat gaaactgtta cctaccatcg t 391

<210> 12744

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-F11

<400> 12744

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 acatctttca tacactctac ttcataatgc tccctgtccc agtataactt atatacatcc 180  
 aaaccctca caatacactt cctaatatct acgcatttct taaccattat ataactcatc 240  
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<210> 12745

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-F2

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 gaccattttc cgcgaatgct cacaagctcc tatagcttct cttcttcccc catacctctc 180  
 accagcgttg tcttcagtat gtgaaaaccc aattcttcaa ccctacagga tccaacaggc 240  
 aatcacagca ggcattctac ctttatcacc cttgttctc caacaatcat cagcctatta 300  
 catcaattac ctttgggtgca tttattggca caaaacatca gggcacaaca actacaacaa 360  
 ctctgtgctag caaaccttgc tgctacgct cagcaacagc agttaccttt ggtgcaattg 420  
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<210> 12746

<211> 179  
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 <213> Zea mays  
  
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 aataataaaa aaaataaaaa aaaaaaaaaa aaaacgacct cccactttat ataatccatc 120  
 cttacattct catgcattcg acctcatatc tacaactata gtgacaccta aatccaatt 179

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 <211> 219  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-014-Q1-K1-G1  
  
 <400> 12747  
  
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 aaaaaaaaaa aaaaaaaaaa aaaaaagaaa attaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaggcc gcccgttcta aagaatccaa gcttacttac cttccatcc 180  
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<210> 12748  
 <211> 365  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-014-Q1-K1-G2  
  
 <400> 12748  
  
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 gactaggggg aggaaggaat tgtagcagcg atctcgctca ccattctcac cgggacgccc 180  
 gcggaatcct caaatccacc cgaaccggtc accatTTTTT ttcttgagat actttggaca 240  
 cttttctttt gaccactcaa tcagcgttcc ttcccttgcg cgggtccgac gaccgatgtg 300  
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gcgcg

365

<210> 12749

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-G3

<400> 12749

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ttgttaattc caaatacc 78

<210> 12750

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-H10

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gttctcgggc ggtgtcggcg gcggctgctt gccgacggcg tcgaatgccg cgatcgccgc 180

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<210> 12751

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-H12

<400> 12751

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ctaatttcaa gaaggtcatt ggtgaggcca agcaggcaga gtctgtacct cctgttctta 180

aaaagggtgt tcttcctaag gagtcaaagg caaaggatgt gaagaaagaa actccaaagg 240

aggcccccaa gccaaagggt gttgaggtag cagcagaaga ggaagcacca aagccaaagc 300

caaagaatcc tcttgacttg ctgccaccaa gcaagatggt ccttgatgac tggaagaggc 360  
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<213> Zea mays  
<223> Clone ID: LIB3059-014-Q1-K1-H3  
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ggccacggac gaccactccc tccacaacgc cttcagcacc tacggcgagg tcctcgagtc 180  
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caacatcacc gtcaacgagg cccagtcccg cggcggccgt ggaggcggcg gcggtgggta 360  
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<210> 12753  
<211> 546  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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gtatgtgtgc aaccaaccag ttgcatgna taaaagttg taccagcttc ttaactcagc 180  
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tacttaatcc acttagcggg ggcataaacc cattnnggtc gctgacctgt cctatcagca 360



gcaacatatt gctcgccata cnatccagta tctcttttga tgatacacct gccttgtcgt 420  
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<210> 12754  
 <211> 440  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-015-Q1-K1-A7  
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 cattgatgcc cctggacacc gtgacttcat caagaacatg atcactggta cctcccaggc 240  
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 ggatggccag acccgtgaac atgctctcct tgcgttcacc cttggagtga agcagatgat 360  
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 gattgtgaag gaagtctcat 440

<210> 12755  
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 <212> DNA  
 <213> Zea mays  
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 ttccgcatgt tggtctattg ctgctatgta tctcacgttg gttattgctg aacttatagc 180  
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 aactgtac 248

<210> 12756  
 <211> 73  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-015-Q1-K1-B2  
  
 <400> 12756

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 agaaaaataa aat 73

<210> 12757  
 <211> 271  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-015-Q1-K1-B8  
  
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 cttcatataa cgcttgatgt gccgtcaaga aatggcgaaa cattggcatg actgtaaaca 180  
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 aaaaaaaaaa aaaaaaaata aaaaaaaaaat a 271

<210> 12758  
 <211> 451  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-015-Q1-K1-C1  
  
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 attatggtaa ccatattcca agggacctgg taacaattct ggtggcaatg gggtacaatg 180  
 aacccttggg tccataactg attaaaccac aaggggggtg caacctggta acgtgggcga 240  
 cccttaatct gcaacaactt gtggccttac cgcttcagcc gtgccaaatg ccaatgatga 300

tgccaggtat gatgccaccg atgacaatga tgccgatgcc gaatatgatg ccatcgatga 360  
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 caaacatggt ttcaccaatg atgatgccga g 451

<210> 12759  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-015-Q1-K1-C11  
 <400> 12759

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 ccccatgtgc gagtacatct catatgtaat ctaaaagatg gcacctccaa cgatggggtg 180  
 ctgcaaggca gggttcatca aagagaactg gttgtatggc aacaattggt gttgctgctt 240  
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<210> 12760  
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 taaaaaactt taaaactatt taattaaaaa actaattaaa acccaattta accatgaaca 180  
 aactttgtta aattattaca gtctacaaat acttattcag gcaaaaaact ttgaggttgg 240  
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<212> DNA  
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 cccctcattg caaaaaactt tgatccttca gagtgtgctt gggcatatgg tatgaatatt 240  
 tttgacctga atgcatggag gaagacaaca atcaaagaca aataccatca ttgggtcaag 300  
 gagaacctga agtcaaactt cacactttgg aggctgggaa cattaccacc aggccttata 360  
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 <223> Clone ID: LIB3059-015-Q1-K1-D11  
  
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<210> 12763  
 <211> 327  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 12763

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gtaggaggcc gctgggtctg tcaaagcaag ttggacaaag ggcaacaatt gttgtagttg 180  
taagaggggtt gcgggggttag ccgcaaactg ctggtagaaa ggcagcaact gttgctgtgt 240  
caagaaggaa gcacggtttg ctgcagctag ctggctaaat ggtagtagta tttgctgctg 300  
caaataagca gcgngttca gtgcgac 327

<210> 12764  
<211> 442  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-015-Q1-K1-D3

<400> 12764

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caaaggcaaa ggatgtcaag aaggaggctc caaaggaggc caccaagcca aagggtggtg 180  
aggcaccagc agaagaggaa gcaccaaagc caaagccaaa gaatcctctt gacttgctgc 240  
caccaagcaa gatggtcctt gatgactgga agaggtata ctcaaacaca aagaccaact 300  
tccgggaggt tgccatcaaa ggtttctggg acatgtacga cccagagggc tactctttgt 360  
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ttggtggatt cctgcagcgg at 442

<210> 12765  
<211> 475  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-D7

<400> 12765

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cgcgtcgcgg ccggaggcgt acccggcgct ccgattcatc cgcagctgca gcgcgtcgct 180  
ggcgccggcg atcctggagc ggctggaggc ggcgttcagc gcgccggtgc tggaggcgta 240  
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gaagcccggg tcggtggggc gcgcggtggg gcaggagctg gcggtgctgg acgaggaggg 360  
gcggctcgtg gcggcgggga gccccgggga ggtgtgcgtc cgcggggaca acgtgacggc 420  
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<210> 12766  
<211> 472  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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aaccacagac tcgtaaagct tcctcggggg aaacctgcag catgagcacc aatttgagag 120  
ccctcaagat accaaggaga aactggaagt taggagaaaa gaagtccttg gccgaataaa 180  
atgtgtgcct acactttact ttttggcttc tacagctttg caggagtatt tagtattttg 240  
atttgacagc aacacataat gacataacta ctatgagcat tgctaattaa ttacaccgg 300  
taccttcggt tgagaaattt tcttccattt ccagcatctg ctggcagacc tgaagggatca 360  
tctccagctc agggatcatc tagtgngaac caccacaaa atgaactcta ttaggagggga 420  
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<210> 12767  
<211> 402  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-015-Q1-K1-E2  
<400> 12767

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 agtgaggatg gacaagtagc gttacccaat ataataatat tatctagttt tcttgaactt 180  
 gttcgaatga tgagtgttta gctgtgtgat ctgacgcaga gttccctgtg ctgactctgt 240  
 gtcattgatg gtccatttta tcttgtggta ttatcagcct ttacataact gctatgtttg 300  
 gatatgttca attctgttgc aattttatgt ggttgttttt tgcgttttgt tgctattaag 360  
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<210> 12768

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-E3

<400> 12768

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 ccggccgtag gtccaaaata gttcccatg gcgtccatat cgtcgcttcc ctttgcgccg 180  
 ctgcgcggag ccgccgagtg gaggccgtcg tcgacggcgc cggccgtctc cggcgccgtc 240  
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 gtcgccacgg cgagtgatgt cccacctact gttggagaaa caaagttgaa cttccttaag 360  
 tcatacaaac gccaatccc aagcatttac agtacgggtc tacaagaact tctggtacag 420  
 caacacctga tgagatacaa aagaacctat cagtatgatg ct 462

<210> 12769

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-F1

<400> 12769

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cactaatcct gcattgcatt caaaccattt atatcttgca acaacctcta ccgattgtaa 180  
attccaaatg gtctctacct ttattaaagg tgtaaaccac aagggatcac ca 232

<210> 12770

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-F3

<400> 12770

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cttccgtggt tatggcaggc gtaatggtga ggcgaggagg aagtctgtcc gtggttgcatt 180  
cgtgagccaa gacctatctg ttatcaactt ggtgattgtg aagaagggtg agaattgatct 240  
gcctgggtctg actgacactg agaagccaag gatgaggggt cccaagaggg cctccaagat 300  
cagaaaagctg ttcaacctta acaaggatga tgatgtacgc aagtacgtga acacataccg 360  
tacgacattc actaccaaga acggcatgaa ggtagcaag gcacctaaga tccaacgggt 420  
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<210> 12771

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-G1

<400> 12771

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ccttccactg ggaaaaagga ccatgctctt atttctggaa tggaaaatgc caatgaaact 180  
ggtactagaa accgatcatt tgccccgaaa ccatcttatt tttatcaagg tgaagaccct 240  
tggaacctgtt aacttttccg gatacttgaa acccttaatg gttaaaccctc aaatttaacc 300  
gtccacattt tgaccagtta aacaccagg cctttcaacc agaggagccg acctcctggg 360  
tttctcagca ggaggagcag ttaaattgtg ctaaaggcca gagatcaaag aggaagaggc 420



cttcgatgga gaaggcagat ggtttggacg gtataac

457

<210> 12772

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-G2

<400> 12772

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ggggctttcc gacttcgacg cccacttcga tgcctcttcc gcttccccgg acgccgcctc 180

cgacggcaag gtgaagctgc tgctcttctt ggccgaccgc aagcctggct cctccctctc 240

ctggtgcccc gactgcaacg tggcggagcc ggtgatctac gagcggctgg aggcactgga 300

gggcaaggac gcggtgctcc tgcgcgccta cgtcggggac aagcccactt ggcgcgaccc 360

ggcgcacccg tggaggggtg accccaggtt cgggctcaag ggcgtgccaa cgctgatccg 420

ctgggaggat 430

<210> 12773

<211> 172

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-G5

<400> 12773

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tggtggtgcc cttttttaaa atgcttaata gggggaattc aataattaag gtttttggat 120

gatgtatgtg gcccacccga aattagaagt tacattttca gatttttaatg gg 172

<210> 12774

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-H11

<400> 12774

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 tactgcctac tgaccegttc atcttgatta ggcaatatgg ttatcccttc accagctatg 180  
 gctcctgcaa tcaccaagtt cctcaatccg tatattttga atatgcattt cacaacaat 240  
 ttcatgagcg ctcatgtcat ccacacacct acagccactg tcgcatgctc ttcaagctct 300  
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<210> 12775

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-H6

<400> 12775

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 cctgttcgcg cgcctcttat gcaagaaggg ctacatcccg ctcaccacct acctccggac 180  
 ctacaagatc ggcgactacg tcaacgtcaa ggtgaacggg gccgtccaca atgggatgcc 240  
 gcacaagttc taccacggtc gcaccggtcg cgtctggaac gtcaccaagc gctccatcgg 300  
 cgtcgagata aacaagcagg tgaatggtcg catcattagg aagcgtatcc atgttcacct 360  
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<210> 12776

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-B1

<400> 12776

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<210> 12777  
 <211> 359  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-B3

<400> 12777

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cttgcccttt tggagcgcac aagcgtcatt attccccaat gctcacttgc tctaggccat 180
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caacagcgct tgcggcagcg tttaacaaca ccaattgcc aattcacaaca atctggacat 300
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 <213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-B4

<400> 12778

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gccgccgcgc tcgtgctcag gctcgccacc ggagggatgc atctgccgga gtacgcgctg 180
gcggtgggcg tgagcggatg gaacgcggcg gtgctggagg cggccatggc gttcgggctc 240
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gcgctggcgg cgccgctcgc cgtgaggctt ctggcggggg ccaacgtgct ggctgcggc 360
gcgctggagg gcgcgctgat gaatccggcg cgcgcgttcg ggcccgccgt cgtgggctcc 420
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 <211> 365  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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gtcctatag cttcccttct tccccgtac ctctcaccia cgggtgtcttc ggtatgtgaa 180  
aacccaattc ttcaacccta caggatccaa caggcaatcg cagctggcat cttaccttta 240  
tcacccttgt tccttcaaca atcatcagcc ctattacagc aattaccttn ggtgcattta 300  
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<210> 12780  
<211> 68  
<212> DNA  
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<223> Clone ID: LIB3059-016-Q1-K1-C3

<400> 12780

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<210> 12781  
<211> 408  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-D12

<400> 12781

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tactccgcgc cttcaattgt gttgacatct cgttcacgag atggggtgca tgtttttgat 180  
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aataacacct ggaacaacac tcatatagca acagttggta cagcaatgtc gtccccagaa 360

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408

<210> 12782

<211> 453

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 12782

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attgagaaaa ttctcaaggc tggagcta atgtgtgtga ccaccaaggg aattgacgat 180

atgtccttga agtactttgt tgagggttgg gcgattgcag taaggcgtgt ggcgaaggaa 240

gatttgcgac atgttgccaa agccactggg gcaactatgg tgtctacttt tgcggacatg 300

gaagggtgaag aaacattcga ttcattcatt cttgggtcatg ctgatgaagt tgttgaggaa 360

agaattgctg acgatgatgt tattctgggtg aaaggcacia agaacaccag cgcgggtctct 420

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<210> 12783

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-E12

<400> 12783

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tggtgggcag gagcctggta ccaatgagga gattgtccag tttgctgca cacgcttcaa 180

ggctgagtac cccatcttcg acaagggtga tgtcaacggg agcaatgctg cgcccatcta 240

caagttcttg aaatctagca aagggtggct tttcggcgac agcatcaagt ggaacttttc 300

caagttcttg gttgacaagg agggacgtgt tgtggatcgc tatgctccaa ccatttcacc 360

cctgagcatt gagaaggata tcaaga 386

<210> 12784  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-016-Q1-K1-F2  
  
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 tacaagccat cacaacgcat cagcaacaac agttcctacc agcactgagc cacctagcca 360  
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 cg 422

<210> 12785  
 <211> 212  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-016-Q1-K1-F3  
  
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 cgtcacgcgac cagttctact gcgacgtgac cc 212

<210> 12786  
 <211> 312  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-016-Q1-K1-F4  
  
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 gatggacatc tactggggat ccatatgcta atgtcgggtg agcaagactt acattcaaca 240  
 gtgcgtattc agctaaagca tttgcagaaa aacatggatg gaatgatgtg gtacggaaac 300  
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<210> 12787  
 <211> 207  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 gctgtgcctg ctctgcgggc tctggnccgt ggccctgcgg gcctggccct gggctgngg 180  
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<210> 12788  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-F8

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 gtgcaagcct ataggctaca acaagcgctt gcggcgagcg tcttagaaca accaattgcc 180  
 caattacaac aacaatcctt ggcacatcta accatacaaa ccatcgcaac gcatcaacaa 240  
 caagcactga gccacctagc cgtggtgaac cctatcgctt acttgcaaca acagctgctt 300  
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<210> 12789  
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<223> Clone ID: LIB3059-016-Q1-K1-G2

<400> 12789

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gaggtgaggg acagcgtcga acggctggac caggccgacg tctacagccc tggggctggg 180
aggatcacac tgcctcacca gccacaagtt ccccgctctc aacctcgtac agatgatcgc 240
ggtgcgagta gacctgtacc aggacgcat catgtcaccg ttctggaact tcaacgcccc 300
cagcgccatg tacggcatca agggcagtgc aaggatcaa gtcgccagcg acaacgggtac 360
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<210> 12790  
 <211> 405  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-G4

<400> 12790

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gccagccccg caacctgtga gctgaatcca gtcacgtgtg atgggacctc gcagcatcag 180
gcatctccgc gatcattcaa tcagcaagtc attgagagta ttttgaatat ttgttctgta 240
gcattctgtt cctggcttga tgttggcgct gcacaatgac aatggatat gcagtaggtt 300
tgattattct ttttctttta ctttctctat accagtacca agttaccaac tgttccgaga 360
ttttcagaat tcgctgcttg aagaatagat gcaggatgat ctgga 405
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<210> 12791  
 <211> 208  
 <212> DNA  
 <213> Zea mays



<223> unsure at all n locations  
<223> Clone ID: LIB3059-016-Q1-K1-G5

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ggctgcgctg ggcggcgcgg gcgcgcggct gcggctgttc tgggcgggcc tgcgggtccc 180  
tgccggcgctc tccgcggccg tggctggc 208

<210> 12792  
<211> 438  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-H10

<400> 12792

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agatcgacga aatcactaaa ccacgcggag gaggaggacg attatatata tggacataaa 180  
ttgggtctcc ttgctgcgta aatgcttcaa gaggtgctg atccaaaaga atgaagccat 240  
ccatggtctg actgcaaata tcgacaacat gttttggaca agacatttag cgatataggt 300  
cgtcattagt tttaacattt acaaaagaac aatatttgtt ttcaattgaa gtttaaactt 360  
gcagactgta tagttgtgat tacaacaagt attgcggatc ctgtcacttt aaaccattgt 420  
ttagttgcct taatcaaa 438

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<211> 391  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-H12

<400> 12793

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ggtgtataca gcgccttgga gaagcttggc atcgactggg aacaggttgg aaagcagctt 180  
 gagctggaac gcgtggactc cttcaagaag agctttgaca gcctactcgt gagcctgcag 240  
 gacaagggca acagtctcaa gatggcgagt gtgtaaagct gataagattg ggtacctgcc 300  
 agtgaacgat ttactaaat aaaatgctag cttgctggct cttctcttac tatttaacct 360  
 gtacctttgc tctcaattat ctgaatcggc t 391

<210> 12794  
 <211> 443  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-016-Q1-K1-H6  
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 ccctcccaaa ctccagcggc cccccctgac caagctccgg ggacggatgg acggaggagc 180  
 cggctttccg ggcacgcagc cggctctccg ctgcgcggag gacgtcttcc gggactaccg 240  
 cgcgcgccag gccggcctga tcaggcgct caccaccgat gtggagaagt tctacgtgat 300  
 gtgcgaccca gagaaggaga acttatgttt atatggactt cctaataaga catgggaaat 360  
 aaacttgctt gctgaagagg tcctcctga actgccagag ccagctcttg gaattaattt 420  
 tgctcgtgat gggatggatg aaa 443

<210> 12795  
 <211> 256  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-016-Q1-K1-H7  
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 ctgtactggt tctgccccctg ctttcatttg atgtcactag tggtagggag tgtggcataa 180  
 tcatgtagat gtacctgcta tgcatacatc gtattaataa atggcaccat tgctctcata 240

tactaagaac aactgt 256

<210> 12796  
<211> 55  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-016-Q1-K1-H9  
  
<400> 12796

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<210> 12797  
<211> 220  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-017-Q1-K1-A1  
  
<400> 12797

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tgctgccatt caaccaactt gctttgacaa actcaacagt gttctacca caacccatca 120  
ttggtggtgc cctcttttag attgcttatg agttatagtt caataatgaa gttttttgga 180  
tgatgtttgt ggcgtcccag aaataagaaa gtacatttct 220

<210> 12798  
<211> 415  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-017-Q1-K1-A10  
  
<400> 12798

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tatttacagc agcaacaact actaccattc agccagctag ctggtgtgag ccctgctacc 120  
ttcttgacac aaccacagtt gttgccgttc taccagcacg ctgcgcctaa cgctggcacc 180  
ctcttacaac tgcaacaatt gctgccattc aaccaacttg ctttgacaaa cccagcagca 240  
ttctaccaac aacccatcat tgggtggtgcc ctctttttaga tttcttatga gttatagttc 300  
aataataaag ttttttgtct gatgtttgtg gcttcccaga aataagaaag tacattttcta 360

aaaaaaataa tattatttat tataataaaa aaagggcggc cgttttagag gatcc 415

<210> 12799

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-A8

<400> 12799

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ccaatggggg cggcgccgtc gtccgacgac tcgtcacgcg ccggagacgg ccgggctgtg 180

gcgagcagcg ctgcctctgg cactggcact gtcagcaaca gcatccaggc ccagtctaag 240

ctggcgctct ttgttttaat gttcctatta gatgtttttg tttgttctat ta 292

<210> 12800

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-B10

<400> 12800

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tttttttttt ttttttattt ggggccataa aatcaatcat taattaaaat aaaaaaatca 120

ttatacccat aaaaaaaatt aacatactat attcccaaca aattttaact gacattatac 180

aataaacaaa ataaaaaaaa taccccaat tatgaaatcc ccttaattaa ttgaatataa 240

accctt 246

<210> 12801

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-C4

<400> 12801

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atagtggtag actgcagggg aaggtggatg agcgttatca tgccaaacaa aaggatgaca 120  
 actggagaca tagagaaagg gacaatagac agaggcccaa gcatgaaaat gtgttaaccc 180  
 ttccgaagga agaaggaaga ggaactggtc ggcgtagtcg gatgatggat gataagttgg 240  
 tcagtggtag taggaacaag ggtgaaccaa gatcttctgt attaagcaaa gacactcgag 300  
 aacgtacaag gcaaaatgaa tcttcgagga gaggtcaggg tgtgcaagaa aacaacatgc 360  
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 tcaggctagt ataacataac aataa 445

<210> 12802  
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 <223> Clone ID: LIB3059-017-Q1-K1-C5  
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 catgcacaca tactggtaga caataaggca caacatgaag gaaccagggg gggggcgact 180  
 atttcttcat gtcgtcaaga aaagacatgc atgcatttgg cgctccctg catcgttgta 240  
 ccacaaacgc gcaggctccc tggatgcac accgaatttt 280

<210> 12803  
 <211> 377  
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 <223> Clone ID: LIB3059-017-Q1-K1-C6  
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 ctggaagggt ttgcttcccg aaataactaat ggtagcagaa gcaacaccct ctctctgggt 180  
 cctccatctt ctgtgccaca tgctactgaa gttcctccga gaagacaggg tgggtggacaa 240  
 cctgatattg gcagcatgat atctggatat ctcaacaacc cagttttcag caacatgttg 300

togaatgtgg caacacagcc aggggggtct agtgctgatt tgaagagcgt gttggaagga 360  
 ttacaaagcc ttgctat 377

<210> 12804  
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 <213> Zea mays  
 <223> Clone ID: LIB3059-017-Q1-K1-D11  
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<210> 12805  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-017-Q1-K1-D4  
 <400> 12805

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 aaaaaaaaaa aaaaaaaaaa agaaaagttt aaaaaattag gtaaaaaaaaaa aaaaaaaaaa 120  
 aaaaaggtta tctattttta attttccatg tttacttacc cttccttctt atttaataac 180  
 tttttttattt cttcccctaa tttaaatcta ttgcccttat ttaaacadct cctatacttt 240  
 taaaactttt cttttaccaa ttttattttc cttgaaaaat ttttcttttt ctcaagtttt 300  
 ctattttttt tatttctctc ttttttatgg gtgtttttcaa tatttttact tctttatttt 360  
 attatttttt tctctttttt attttctttt tatttccctt tttttttctt tttttttctc 420  
 atttttactt ttttttttct ttat 444

<210> 12806  
 <211> 327  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-017-Q1-K1-E12  
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 cttacaacaa tatattccat tcaaccaact ttctacacta aacccttcta cttattttca 180  
 acaacaacaa ctactacat tcaaccatct atctatcttc tactctcatc atcaacaatt 240  
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<210> 12807

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-E7

<400> 12807

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 gatccacaat ggagaaatga caacaagata tgccaagata aatgtaactg gtcggttcga 180  
 caaaccacaa ctatatttgt tggattccat cacatcacgt ataaaacatt gggccttgta 240  
 atgaaacttc cgtgccaatg agatgaaaat gcctacctac aacagcaaca actgctttca 300  
 tgtagccctc tcgttggtggg taatgcacct acatacctgc aacaacaatt gctgcaacag 360  
 attgtaccag ctctgactca tctagctgtg gcaaaccctg ctgtctactt gcaacaac 418

<210> 12808

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-G3

<400> 12808

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 ggcaccctct tacaactgca acaattgctg ccattcaacc aacttgcttt gacaaactca 180  
 acagtgttct accaacaacc catcattggt ggtgccctct tttagattgc ttatgagtta 240

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 <211> 188  
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 <213> Zea mays  
 <223> Clone ID: LIB3059-017-Q1-K1-G5  
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 tcacacca 188

<210> 12810  
 <211> 439  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-017-Q1-K1-G6  
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 actctgctgc ttatttgcaa caacaacaac tactaccatt cagccagcta gctgctgcct 180  
 accaccagca atttcttcca ttcaaccaac tggcatcatt gaactctcct gcttatgtac 240  
 aacaacaact actaccattc agccagctag ctgctgtgag ccctgctgcc ttcttgacac 300  
 agcaacagtt gttgccgttc tacctgcacg ctgcgcctaa cgttggcacc ctcttacaac 360  
 tgcaacaatt gctgccattc aaccaacatg ctttgacaaa cccaacagcg ttctaccaac 420  
 aacctcatc tggtggtgc 439

<210> 12811  
 <211> 317  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3059-017-Q1-K1-G8

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tcccttcgcg tcaagcgcat caaggccctg ttcaaagccc acacaaagca tcaccggacg 180  
gtgctactcg acaacatata gatcatcacg aatcatacta tccctatgct atcacggatg 240  
cacgacactg accgcatttc tgagctcatc tactagaata cccgcaacgt actcaagatc 300  
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<210> 12812

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-017-Q1-K1-H12

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attgtcagtc cagatgcaat gtttgatgtg caggtgaaaa ggatacatga atataagcgg 180  
cagctgctaa atatccttgg aattgtctac cgctacaaga agatgaaaga aatgagcaca 240  
gaagaaaagag caaagagctt tgttccaagg gtatgcatat tcggtgggaa agcatttgcc 300  
acatatatac aggcaaaaag gatcgtaaaa ttattacag atgtggcagc tacctgtaac 360  
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gttgccga 428

<210> 12813

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-H2

<400> 12813

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ccaaccaaca agcaaaaatt ccggagatgg tactagtctc cgcggcgaag atgtcagtgc 120  
gcggcaaggg cggcaagggc ctgggcaagg gcggcgcgaa gcgtcaccgg aaggtgctgc 180  
gcgacaacat ccaggggatc acgaagccgg cgatccggat gctgtcgcgg cgggtgcggcg 240  
tgaatcgcat ctcgagctc atctacgagg agaccgcag cgtgctcaag aactttctgg 300  
agaacgtcat tcgatactcc gttacctaca ccgagcacgc gcgccgtaag accgtcaacg 360  
gcatggacga ttacta 376

<210> 12814  
<211> 168  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-A10

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gggagtgttt ggtacgatga atcactctat ctatgcacag ataaagaa 168

<210> 12815  
<211> 401  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-A7

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cgtaagcaac caggataagt ggtacctaga tcacttggat gctacatggg aaggatttta 180  
cacgaatgaa cactgacaa atatctacaa cccggagcag cagaaattgg tacttgggtg 240  
tgaggatatgc atgtggggcg aacacattga tgcacagac attcagcaga caatttggcc 300  
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<210> 12816  
 <211> 420  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-018-Q1-K1-A9  
  
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 agcaatcaaa cggcggcagc tgccacgcgc tgtcctgcaa gctcgcccgg tacctcgacc 240  
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 tgggtgctcat atgcagcctg ctctggggag ccgtccccgt cgtcggcgcc ttctggatcg 360  
 cactatttat ggccatctcg actggcatta tctattgcta ctacgcctac ttgctgaaag 420

<210> 12817  
 <211> 311  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-018-Q1-K1-B6  
  
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 ttatatgcat gcttccctta agtagattgc cagtagtatt tgcgtatggt gagctggctg 180  
 gtccttaatg tctgtcccca tgtacaaaac cagatcaaga tgcttgggct tccgggttgag 240  
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 aagagttaaa c 311

<210> 12818  
 <211> 202  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-018-Q1-K1-B9  
  
 <400> 12818

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 tgtttgttct tctgtttttt ctctcccagc accagcttgt actgcactta cagttaaaag 180  
 attattacta acgttgtgtg cc 202

<210> 12819  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-018-Q1-K1-C11  
 <400> 12819

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 tgttgacata gatctctacg aaggcatctg cactgacatc ttaactttaa taatatggaa 180  
 actgtatgtc acaaaattat actctctaaa atactctggc aatgctgttt gcactgagct 240  
 gatgattgtc gagatcatta tggcaaatcc aacaagagat ccatgatcag atgccgagac 300  
 tgacgacgat atggacgatg attattgtga tcatagtatt atgctttaga tgacttatat 360  
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 gcctt 425

<210> 12820  
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 <213> Zea mays  
 <223> Clone ID: LIB3059-018-Q1-K1-C7  
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 cgtcggcgtc gtttcgtcca ggccagggcc cttcgcggcg acgtccggtc ggttcctggc 180  
 gacggtcacc ggtaaaggcg ggcacgccgc gatgccccac gaatccatcg accctgttgt 240  
 agctgcagcc actactgtcg tcagcctcca gaagatcatc ttccgagata tcgatccct 300

gcagggcgcg gttgtgtccg tcacttttct taatggagga gtagcttaca ttgtctttct 360  
 agatattgtg gcctttttc 379

<210> 12821  
 <211> 205  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-C8

<400> 12821

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 atgttttacc acaaattaat gacattacga catgccacag ttctttctca tagcttctta 120  
 caatctttaa atcctacaca cctcaatacc ctattactct atatcttata tagtagatat 180  
 atttactcaa attgtcatcc tttat 205

<210> 12822  
 <211> 311  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-E2

<400> 12822

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 caaagcaaag caaatggcgg atgccccgag caagatcgaa tgcattgatta agagcctcga 180  
 ccagcacaag ctgagagccg tatgttgcca ctggctaggt ggcacacagca gttcgatcgc 240  
 ctacaactgg tcgcgggcca atatgaagcc taacgtcaag atcatccact caaggttgca 300  
 tgctcaagct c 311

<210> 12823  
 <211> 264  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-E6

<400> 12823

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ccttttagctc aatgacggaa gggcatagg agtggttcca tctactggtt aactggagcg 120  
ttcgctatgg cgataggcgt cataaggaga acgttttttg ccatacacta gcgttcttaa 180  
cttctactaa ctttctctgt agtttctctt ccttttgtec tgtctcatct catttgtctc 240  
atctttattt acatttttat atca 264

<210> 12824

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-F6

<400> 12824

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ctccaaattc gcctgtcag gtatcaccat ccacccgct agctactgcc tactctcatc 120  
aacaacaact tcttccattt aaccaattgt cgcacttaa ccccgctgct tatttgcac 180  
atcaaatact actaccattt atccagctag ctgcatcaag ccgttcttcc ttctttacac 240  
atcatcagtt gctgcctttc taccatcagt ttccggctaa cccctcaacc ctcttacaac 300  
tacaacaatt gtttcccttt gtccaacttt cttttacaat acccatattc ttctaccaac 360  
aacacattat tttttattcc cttatttata tttcttatta ttt 403

<210> 12825

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-F7

<400> 12825

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atgctccttg gtctttctgc aagtgttgc accgcaacca ttttccaca atgctcacia 120  
gctcctatag cttcccttct tccccatac ctctcaccag cgggtgtcttc agtgtgtgaa 180  
aaccaattg ttcaacccta caggatccaa caggcaatcg caacaggcat cttaccatta 240  
tcacccttgt tctccaaca accgtcagcc ctattacaag agttaccttt ggtccatttg 300

gtggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgca 360  
tactctcagc aacatcagtt tcttccattc aaccaactgg ctgcattgaa ctctgctgct 420  
tatttgcaac aa 432

<210> 12826  
<211> 425  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-018-Q1-K1-H8  
  
<400> 12826

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gctggctggc gatccgaacc ttcactttgt tgaagctggt gctcttaagc ctccggaagt 120  
taccatcgac atggctatgc agcagcagca tgaagctgag cttgctgcag cagctgcaca 180  
acctcttctc gatgacgatg atgatctgat tgagtagaaa ggatcatgag tcttggaactt 240  
gagcaggagt tgtgccttgc acgatttaag ttgttctagg gtggactctc tcttgagtta 300  
tcattgtctg gatcattttt ttctccttgg acttggtgca acttttgagt gtggaaatgg 360  
attggaatag tcgccatgaa tttgctggct actttatata tgtctttggc cataaacctt 420  
ggttt 425

<210> 12827  
<211> 465  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-018-Q1-K1-H9  
  
<400> 12827

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atcagcagtt tcttccattc aaccaactag gttcattgaa ctctgcttct tatttgcaac 120  
aacaacaact accattcagc cagctacctg ctgcctaccc ccagcaattt cttccattca 180  
accaactagc agcattgaac tctcctgctt atttacagca gcaacaacta ctaccattca 240  
gccagctagc tgggtgtgagc cctgctacct tcttgacaca accacagttg ttgccgttct 300  
accagcacgt tgcgcctaac gctggcaccc tcttacaact gcaacaattg ctgccattca 360

accaacttgc tttgacaaac ccagcattgt tctaccaaca acccatcatt ggtggtgccc 420  
tctttagat ttcttatgag tcatagttca ataataaagt ttttt 465

<210> 12828  
<211> 460  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-A9

<400> 12828

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tgcgagcgca acaaatgcgt tcattattcc acaatgctca cttgctccaa gttccattat 180  
tacacagttc ctcccaccag ttacttcaat gggcttctaa caccagctg tgcaagccta 240  
taggctacaa caagcaattg cggcgagcgt cttacaacaa ccaatttccc agttgcaaca 300  
acaatccttg gcacatctaa caatacaaac catcgcaacg caacagcaac aacaattcct 360  
accagcactg agccacctag ccatggtgaa cctgcccgc tacttgcaac agcagttgct 420  
tgcacaaac ccacttgctc tggcaaacgt agttgcaaac 460

<210> 12829  
<211> 325  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-B5

<400> 12829

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catgccccta cgctgctgcc ggcggtgtcc cccactgaag aaactatgtg ctgtagtata 180  
gccgctggct agctagctag ttgagtcatt tagcggcgat gattgagtaa taatgtgtca 240  
cgcatcacca tgggtggcag tgtcagtggt agcaatgacc tgaatgaaca attgaaatga 300  
aaagaaaaaa gtattgttcc aaata 325



<210> 12830  
 <211> 118  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-019-Q1-K1-C1  
  
 <400> 12830  
  
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 acgtgtctcc gaagtttttt atattttggg ctaaaaaaaa aaataacaaa aaaaatca 118

<210> 12831  
 <211> 355  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-019-Q1-K1-C10  
  
 <400> 12831  
  
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 ctatgggaaa gctggactct gagaatcact tgtcggctgc aactgaggtg agacttcac 120  
 agatcacagg atcctgccac tggacgtatc tcgcgtact ggaaagcgat actttacgtt 180  
 tcggccctag cttttgcttg tcggccagga tacaagaaca tgctttgatg ccattctcca 240  
 aattggcata atgtgagaat tgaccggctg cagactgtt cggcatattg acatactatg 300  
 accaatggag tatgttatgt agctagctgc tactttgtag ttagtgcggtg atgat 355

<210> 12832  
 <211> 168  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-019-Q1-K1-C7  
  
 <400> 12832  
  
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 aaaaaaaaaa taaaaataa aaaaaggcca tacaatttag aagatccaag cttacatccg 120  
 ctttcttgca aagtcttaac tcttttatag tgatacctaa attcattt 168

<210> 12833  
 <211> 370

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-019-Q1-K1-C8  
  
 <400> 12833  
  
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 aaacgcacgc atgctctatt atagctagtc atcactatat atatacttgt gtttgtgtat 180  
 tgatgttctt gttctgctgg tgtctccgcc gtttaatttg acctatgtta tggagtgagt 240  
 gatatatgtg ccgtcactcc tagtatatag tagtgagtga ctagttggta tgtgtagtac 300  
 tgtactatct tttatccata tgcattgttt gccagcgcgt aatgaatgta atgtcagtac 360  
 tgctactaac 370

<210> 12834  
 <211> 72  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-019-Q1-K1-D12  
  
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 aaaaaggaaa aa 72

<210> 12835  
 <211> 133  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-019-Q1-K1-E1  
  
 <400> 12835  
  
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 gtgctctgga aaagaaactt gaggcttgta ttgcatcttt gataacataa tattataata 120  
 tatgtagaga ctc 133

<210> 12836  
 <211> 223

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-E10

<400> 12836

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 aaattattaa caataaaaaa gtggtatcta aattcatata aattggacga tatttaacaa 180  
 ctgtaactaa tgataaaaacg ttgtaagtta gcgatcttat taa 223

<210> 12837  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-E4

<400> 12837

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 tcaagcagtg gtacctcact cactatggag ttgacattgg taggaagaag aaaacccttg 180  
 ctgcaaagaa ggataatgct gagggacaag aggttgaggc agcagctgag gaaacgaaaa 240  
 agagcaacca tgtcacgagg aagcttgaga agcgcaagga gggacgtacc cttgaccac 300  
 acattgagga gcaatttggc agtggacggt tgctggcatg catttcttcc cgccctggac 360  
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 agctacagaa gaaga 435

<210> 12838  
 <211> 469  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-F5

<400> 12838

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tagacaccaa gccaccgcca tggggcgatat gcacagccgc gggaaagggta tctcttcatc 180  
 ggcgctgccg tacaagagga ctctccgat ctggctcaag acagctacca ccgaggtgga 240  
 ggagatgatt accaaggctg cgaagaaggg ccagatgccg tcgcagattg gtgttctgct 300  
 ccgtgaccag cacggcatcc cgcttgtcaa gagcgtgact ggtagcaaga tctgcgcat 360  
 cctcaaggcc catgggttgg cgccggagat cccggaggat ctctacttcc tcattaagaa 420  
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<210> 12839

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-019-Q1-K1-G4

<400> 12839

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 gggtaatgca cctacatacc tgcaacaaca attgctgcaa cagattgtac cagctctgac 180  
 tcagctagct gtggcaaacc ctgctgccta cttgcaacag ctgcttccat tcaaccaact 240  
 gactgtgtcg aactctgctg cgtacctaca acagcgacaa cagttactta atccactagc 300  
 agtgcctaac ccattggtca ctgccttccct acagcagcaa caattgctac catacagcca 360  
 gttctctntg atgaaccctg ccttgctgtg gcagcaaccc atcgttggag gtgccatctt 420  
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<210> 12840

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-019-Q1-K1-H2

<400> 12840

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ctgcattttc ctggcatttg cattcacctt gctgtacttc gtaaaaccaa ggaaactggg 180  
agaccacaac tacttatacct ggaacagacg ctaggatggt tcggaacacc aagtgtccgt 240  
actactcgaa atgtagcttg tatgaaatga aatgctctga accagaaatg tcgatgggca 300  
taagcaagca tgggtcagga aagaacttca tgtatatattt ttacgaaggg gtctaagtgg 360  
ctacgttaat tttggttnc tggggtcctt agtgtagcac tgaacaggag aataccaaat 420  
gaactctatt agcttgcttc cgtgggt 446

<210> 12841  
<211> 228  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-H9

<400> 12841

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agtctattac agaaatgttg ttcggagctg agtctattat aaacatcttg gtctgagttt 180  
attgttgagt ggtgccagtt tttttcaata tacattttatc ttaaaaaac 228

<210> 12842  
<211> 406  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-A3

<400> 12842

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tctgttcttg gatcaaagac tacagaccac actgtattct tgctgagggt tcacagcttg 180  
gtgacaagtg tagtgtgaag cgatctgtga ttggctgtca ttgccgaatt ggttccaatg 240  
taaagatcgt caactctgtt gtgatgaatc atgttggtgt tgaagatggt tgccacatcc 300  
aaggttctgt tgtatgtaat aatgttcaac tgcaagaacg ggcagttctg aaagattgcc 360  
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<210> 12843  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-020-Q1-K1-A6  
  
 <400> 12843

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 acctcctatt tatgtgccat tgggttaatta gagttcttat gttgttttag atggctgggt 180  
 ctgctttcct gtttacgaat tatgcgtcgt cgatagggcg tccgtaaggg cgcctctgac 240  
 cacctactgt gtgcttcgct acattttcag cccaccgtgt gccagcccac gcatgcttgt 300  
 ttaaaacgcg cggcgggtgt gcgcgttagt cgttggtttc ttgtgcgctg tgctgccgcg 360  
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<210> 12844  
 <211> 434  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-020-Q1-K1-A8  
  
 <400> 12844

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 caattttccc tcaatgctca caagctccta tagcttccct tcttccccca taccttccat 180  
 caatgatagc ttcagtatgt gaaaaccag ctcttcagcc ctataggctc caacaagcaa 240  
 tcgcagcaag caacatacct ttatcaccct tgttgtttca acaatcgcca gcctatctt 300  
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 cattcaacca actg 434

<210> 12845  
 <211> 432  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-020-Q1-K1-B1  
  
 <400> 12845  
  
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 aacctgcggc gttggcagca ccccgatcct gggccagtgc gtcgagtttc tgaggcatca 420  
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<210> 12846  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-020-Q1-K1-B2  
  
 <400> 12846  
  
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 tacttaatcc attggcagcg gctaaccat tggtcgttac cttgctgcag cagcaacaac 180  
 aattgctgcc atacaaccag ttctatttga tgaaccctgg cttgcagcat cccatcgtcg 240  
 gaggtgccat gctttaaatt acatatgaga tgtactcgac aatggtgcc tcataccgac 300  
 atgtgttgac tagaaataat caatatatcg atcgagatgc atctcgatca ataaaaagct 360  
 ttaggaaccc cggtcggngt gtggtgggag ttcggcaagg acggcgacac ccacctactc 420  
 ggcgac 426

<210> 12847

<211> 136  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-020-Q1-K1-C11  
  
 <400> 12847  
  
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<210> 12848  
 <211> 161  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-020-Q1-K1-C8  
  
 <400> 12848  
  
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<210> 12849  
 <211> 527  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 12849  
  
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 tccatgtctc actcttcgag ggctcagaag ttccagggtc ccatccgcca ttgctcggca 300  
 agtctcggat ctctttccct tccaggtcct gcgagcacct agatcgtcac tcgtcgactt 360  
 gccagccgtc ggggccccag gganggcatg gctcgtcttc gtctctcggg tccattccgc 420



actcggctcc cgtaggagca tccccatcaa ggttctctca gggcatttcc atttgctgcc 480  
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<210> 12850  
<211> 261  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-E10

<400> 12850

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gtctgagggg gcctctgctc gttggcagcc ggatcgctg ctgttggtgc atctgggtgat 120  
taataatact actatgacag agccatgctc tgtgaagagt attagtagca gcgctcataa 180  
aagctacagt tccgtctctt ttctcagcta tgtaaaactt ccaaactgtt catgcttaaa 240  
actgaggggtt ttcttggtgt g 261

<210> 12851  
<211> 353  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-E7

<400> 12851

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ttttccctcc ttatgctcct tgctctttct gcatgtgttg ctaacgcgac aattttccct 120  
caatgctcac aagctcctat agcttccctt cttcccccat accttccatc aatgatagct 180  
tcagtatgtg aaaaccacgc tcttcaacct tataggctcc aacaagcaat cgcagcaagc 240  
aacatacctt tatcaccctt gtttcaacaa tcgccagccc tatctttggt gcagtcattg 300  
gtacaaacca tcagggcaca gcagctgcag caactcgtgc tacctgtgat caa 353

<210> 12852  
<211> 534  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-020-Q1-K1-E8

<400> 12852

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gtgtttctct caccagttat cttcatatgg cctgtcgaac accgcgagct gtgtcaagtc 120  
ctatgaggct acatacaagg cgattggcgg cgagcgtcgt tacaacaact caattagccc 180  
aattgacaac aactaatcca ttggcacatg ctaacaatac agaaccatgc gcaacgacat 240  
cagcaactaa cagttgccta ctcagctact gagccatcct agccatggnt gaactcctgt 300  
cgtcctacgt tgcaacagtc agctgcttgc tatccaaccg cactttgctt ctagcaagac 360  
gtagattgca aaaccagtca acaaccaaca tactgcaacg agtttctggc cagcgcttag 420  
tcaacttagc catgtgtgaa ccactggccg cctgacctac atacagcaac aacatggctt 480  
tcatnctagt cccgcttccg ttgtgtgcc aatgtaccta catactctgc aaca 534

<210> 12853

<211> 339

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-020-Q1-K1-F10

<400> 12853

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tttttttttt ttgggttttt gttttttttt tttttttttt tttttttttt tttttttttt 120  
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 180  
tttttttttt tttttttttt tttttttttt tttttttttt tataaaaaaa ataaattttt 240  
tnttttaaaa tttaatatata tttttatatt ttataatttt aatttttttt ttttaataat 300  
atattttttt aataatttat ttttatttta tttttttttt 339

<210> 12854

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-F2

<400> 12854

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atgctccttg gtctttctgc aagtgtctgt acggcgacca ttttcccgca atgctcacia 120  
gctcctatag ctccccctct tccccgtac ctctcaccag tgttgtcttc agtatgtgaa 180  
aaccaattc ttcaacctta caggatccaa catgcaattg catcaggcat cttaccttta 240  
tcaccttgt tcctccaaca atcatcagcc ctattacagc agttaccttt ggtgcattta 300  
ttggcacaaa acatcagggc acaacaactc gtgctagcaa accttgctgc ctactctcag 360  
caacaacagt tacctttggt gcatttggtg gcacaaaaca tcagggcaca acaactacaa 420  
caactcgtgc tagcaaacct t 441

<210> 12855  
<211> 353  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-020-Q1-K1-G1  
<400> 12855

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aagtataccc tgaggcattt gcagatccag aaggccta atggcagggtg ctaaagtctg 120  
cgtgggatgc tgggtatacaa gtggctagt agaacgctct accttgctat gatagggatg 180  
gattcaacaa gattttggag aatgccaaac ctctgaatga ccagacgga cggcatttgt 240  
taagtttcac ctacctaagg cttggcaaag atctgtttga gagaccaac ttttttgaat 300  
ttgagcgctt catcaagaga atgcatggtg aggcggttct tgatctgcaa gta 353

<210> 12856  
<211> 356  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-020-Q1-K1-G4  
<400> 12856

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gcgactgcga tgacgaggca catgttacgt gatgcgcaac gagttgcaca gatggccgat 120  
gcctgtgata aaccagggtt gtgcgacta ctacgtctgt ctgcctacca ccacatgcct 180

tgctaaggca tgcattggcgg acctgatgct tccagtctac gcttcccatg ccccgagaaa 240  
tagctaccgg tgctatgcgc ttggctagtg tgatgactgc tatcatggga gactcagcag 300  
tgccagctta tatgtgtcta tgatctcgca gccgagcact tggaaatctg ggccca 356

<210> 12857  
<211> 340  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-020-Q1-K1-G6  
  
<400> 12857

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gcccacatt ctgagcttaa gtcaattttg aacaggatgg ataatcatga agcagtgcgt 120  
tcgcttaaga tacttttttt tgggaagtga gattagtgtg tgagggttaga ttttttttca 180  
gtccatcttg agaatgggtct atgcctttat ggtttaggct agcaagtctt agattgggtg 240  
cataaaatta catctctggg tacatgtgag gttgtaaaat cagtatggaa ttatggatga 300  
gtgtaccaac cttaatgtac ccgttcaaga ttatgggtgg 340

<210> 12858  
<211> 404  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-020-Q1-K1-H5  
  
<400> 12858

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ttgtgtacat ggcagctgtt atgtgttttg ttcttgcaac catgtcttct acctcccat 120  
cattctgcca agctgggggc tgcattcggt gccacgggc tccaccaccg ccgtccgatg 180  
agacatgcta cgaggacctc aagtgttcgg ctctgaggtg ccacctgggt tgcatacaca 240  
ggggctacaa gggtaggggt tcgtactgtc gtgggagggg ctgctgctgc aaacattgat 300  
gcaccgtagt gcatctatgc atttcatgac catacaataa acctagatgt gtatcctttg 360  
cctccgacga ctataaatga aatgaaatac tactaagggt cagc 404

<210> 12859  
 <211> 86  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-021-Q1-K1-A10  
  
 <400> 12859  
  
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 ttatgcattc ttaattcaac ccattt 86

<210> 12860  
 <211> 437  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-021-Q1-K1-B1  
  
 <400> 12860  
  
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 tcctcgtccc agacaagcca atcggagccg gggtagcacc atggactcca ccggcaccgg 120  
 agcagggggg aaggggaaga agggagcggc cgggcgcaag gtcggcgggc caaggaagaa 180  
 gtcgggtgctg aggtccgtga aggcgggtct ccagttcccc gtcggcgcga tcgggcgcta 240  
 cttgaagaag ggccgctacg cgcaacgtgt cggcaccggc gccccgtct acctcgccgc 300  
 tgtcctcgaa tacctcgccg ctgaggttct ggagctcgcc ggtaatgctg ccagggacaa 360  
 caagaagact cgcattattc cgcgccacgt gcttcttggc gatccggaac gacgaggagc 420  
 ttgggaagct gttgggc 437

<210> 12861  
 <211> 294  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-021-Q1-K1-B7  
  
 <400> 12861  
  
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 ccgtcgggcg tttatagggt gaggcatttt ggtgcctgca aaccactgat tgggtccatc 120  
 aaacattgta ctgggacctc tatggcgttc gcagtgcgtt aggtagcaca ccagtgcgtt 180

gcgttgcgtt cgacggcaca cctgtcagag aatcgacacc gggtcataata cttactttgc 240  
 atacctgccca cagtatatgg acatgttttg cctatagtta ctaaaaagat gaat 294

<210> 12862  
 <211> 363  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-C6

<400> 12862

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 gttgcattca gcaacctgta cactttatatt attcctcgtc gggaatcagt cgtcctcctc 180  
 cggcgaggag aagaacgacg acgacgagct gaccgagagg gacctatggt gtacacttca 240  
 ttattcctcg tcggcaatca gtgactcgtc ctccttcgac gaggaggagg agaaggacga 300  
 ggacgaggac gacgagctga ccgagagcga cctccggtag gtgtacagaa ccgcgtcggg 360  
 cac 363

<210> 12863  
 <211> 146  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-C9

<400> 12863

cccacgcgtc cgctcaatgt ttgttggtg aacagagata cgcgtttgaa tttggcgtaa 60  
 agcgaactgt tgtcttcttt ttcccttccc ctctctctct atctccagtc atcggttaata 120  
 ggacaagtac ctttccttat tccatc 146

<210> 12864  
 <211> 362  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-021-Q1-K1-D5

<400> 12864

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tggtaaggtn nctgttatgc atggtnnttg aacccannta gcaatgtggg cggagcgtnn 120

gtgtaaana ctgtcagtat gatcggaatt ccaactannt tcatcannac cgaaatnnta 180

tggcgcgccct tcannatcgt ggctaccgcc ctgatgggga cccctgannt ccgttatnng 240

gtgtnnngctt gaannntcgt ggctttgtgg agaaaatgtg tggaaacttc aaattggctt 300

aaagtnnnngt gcttntnnat taactaatgn nngtgatgct nggnatggaa ctngnnattt 360

tg 362

<210> 12865

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-E10

<400> 12865

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gagggtcttta tctgaatcaa ctatagcatg tgttactagt gattacgcga tgcaaaacgt 120

catcctgcag attggcctcc ggctcatagc accgggtggc atgcagatac gccagatgca 180

taggtgggtt ttgagggtgc atgcttgcta taagggtgacc caagagggtt gcaaaatatt 240

ttgtccgaag tgtggcaatg gtggcacctt aaggaaggtc tcagtaacag ttggtgaaaa 300

tgggatcact atggcttcac ggcgccacg tgttacactt tgaggcacia aattt 355

<210> 12866

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-E5

<400> 12866

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aagctgggtcg tgttcttctc cttattggg cgcgcgtgtt gtgttgtgcg ctgctgtgct 120

tgtgtactcc agctgtagct gctgctgtgc ctagctgatt gaagttggaa ctgtagtggg 180

tccacagtat tatgcatggt ttgtttggtg agacgtcaaa g 221

<210> 12867  
<211> 440  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-F6

<400> 12867

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agcatcatgg ccaggccagg cggccagcag ccggcggaga tggagaggaa gaaggacagc 180  
ggtgtcttct tcggtggggg ctgcggcttc cggatgccgc tgcactaccc gcgctacaag 240  
aaggcggact acgagagcat gccggagtgg cgcgtcgact gcctgctccg cgagtacggc 300  
cttcccgcgc acggcgacgt cgacagcaag cgccgcttcg ccatggggcg cttcctctgg 360  
cccgaccagt actgatccaa ccaaacaag ctcagcgcta gctagctgcg tgccggccgt 420  
gatctcgta tatttagagg 440

<210> 12868  
<211> 274  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-G2

<400> 12868

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ggatcaccgc tgtgcctgcg cgtgctgctt caccgaatcg agtcagatcc tgtccgaatc 120  
cgagctaagg gatggcaacc ggtagtgaag cctcgaaggc agctgaggct gtggttgact 180  
ggcataaaca cgacagcaag aggatgctcc atgcggttta ccgtgttggg gatctggacc 240  
gcacaatcaa gtactacacg gaatgctttg ggat 274

<210> 12869  
<211> 397  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3059-021-Q1-K1-G4

<400> 12869

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gaccaagata ttttccctcc ttatgctcct tgctctttct acatgtgttg ctaacgcgac 120  
aattttccct caatgctcac aagctcctat agcttccctt tttcccccac accttccatc 180  
aattatagct tcagtatgtg aaaaccagc tcttcaacca tataggcttc aacaagcaat 240  
cgcagcaagc aacatacctt tatcgccctt gttgtgtcaa caatcgccag ccttatcttt 300  
gggtgcagtca ttggtacaaa ccatcagggc acaacagctg cagcaactcg tgctacctgt 360  
gatcaaccaa gtagctctgg caaacctttc tccctac 397

<210> 12870

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-G6

<400> 12870

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tcactgaggt gcttgctaag atctgggaga gactcaaaga agtgggagag aaatttgaag 120  
ttgtagctgt atccttggac agtgaagagt catcatttaa tgagagtttt gcaaagatgc 180  
cttggcttgc aattcctcaa ggtgacatta agtgtcagac gctgggttcgt tactttgagc 240  
ttagttctct tccaacacta gttctgattg gccctgatgg gaagacactg aacaacaatg 300  
tcggcgacat aattgacg 318

<210> 12871

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-G8

<400> 12871

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ttgtccaaga gtgactgctt tatgcaagat tcttttgtcc aaggggtttg tagttctcta 120

ttgttagtat caccttataa gatgttttag tttttctaaa ttttttttta ctacacatct 180  
aaacataatg tacaagttac acaatacaag agtgactgct ttatgcaaga ttcttttgct 240  
c 241

<210> 12872  
<211> 449  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-021-Q1-K1-H1  
<400> 12872

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tcagatgctc aacaagaagc atacggtagc gcatacttgg cacatctgaa gtaggtgcag 120  
attggtgcat aaaaggcatc caggacatca gtagttatag catcctctca catctgacgc 180  
tttcaaaatg tcatctcccc atagttagaa cgaattcatc tcaagactgt aggtcctctg 240  
cttgagaagc atcctcaccg ctgtcctata cggctcctcg aatgcatcca acaccaggc 300  
tgcaccagca gccccattcc aaactgtgtc ccctgttctt tcctcacttg gcttgatggc 360  
cacaagcgtt gcgccattta gcaccagccc cccaggcagc tcaatacatg gtgcgtacca 420  
cagtcacatg ctaagctctg gcatgagcg 449

<210> 12873  
<211> 273  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-021-Q1-K1-H2  
<400> 12873

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tggtgaatcc aagaaaccaa ttgttgtaga gtatggcctt aaccatgtga cttacctcat 120  
tgagcagaac aaggctcagc tcgttgatc cgtcatgat gtggatccga ttgaactggg 180  
tgtttggtt tcagccctgt gcaggaagat ggaagtccca tactgcattg ttaaaagaaa 240  
ggctcgctt ggatcgatcg ttcacaagaa gac 273

<210> 12874

<211> 360  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-021-Q1-K1-H7  
  
 <400> 12874  
  
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 agctgtcaca tcatccctat caagcagcat atgataaaac agtaagacat cctcgccgga 180  
 tggataatga acgaaacaac tacatggaga gccaaagtgg catacgtgat aataaccctg 240  
 aaaacgggtgc tgcaacctcc atgtgaacat gcattgcaac aagacttggt caatagacta 300  
 ctttggactt ttggtgaacg ctgcatgtac attctgttta caccctttca cagtgaactt 360

<210> 12875  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-022-Q1-K1-A12  
  
 <400> 12875  
  
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 ctattttgca cccagtgtga gaccaaacca gctgctttct gtaactattg tcgttcaagt 180  
 gatcattcca cccaccgtgt aatccagata aggcgttcat cgtaccatga cgttgtgagg 240  
 gtgtccgaga ttgaggatat ccttgatgtc agcgatgtgc aaacttatgt aatcaatagt 300  
 gcaaggattg tattcctgaa tgagcggcca caactgcgtg cttctagtgt cccattttgt 360  
 aaggcaccca catcatcaac acatagctgt gagacatgta accgtgtgct acttgatgca 420  
 tttcgcttc 429

<210> 12876  
 <211> 358  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-022-Q1-K1-D1

<400> 12876

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aagagagatg gagttgaagg agaaatttgt aatgaatggt caagaggtag ctgagaagtt 180  
gcaaaacaca tacttatatt tgaagaactt ataggatgaac atatttgatg ataaattgctg 240  
tgagctcttt gatgattatg gtaatattac ttttctgcaa tgttatgctg aattctaattg 300  
gggttatcag aggttctgga tttgttgctt tcaaactctgc tgaatatgct aaccgagc 358

<210> 12877

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-D7

<400> 12877

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ctgagcgagc tgacgtgcat gttctagcgg agcacggaga agggctacgt atggatgacc 180  
atgtagcgag caagtctcga gggcgaggca cagttgcgtt gagatggaga ataatgatca 240  
ggaggttttag ctcaattgag tgattcgcgc ctccaatggc aagaagaata ttttcagctt 300  
ggtttctcta attgagtaca caaagtttca agcttcatac gcaacagttc tta 353

<210> 12878

<211> 531

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-022-Q1-K1-E11

<400> 12878

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tccttggcac aaatctaacc ctacaaactc attgcaactg cacaacaaca acaacnagtt 180  
tctgccatca cttgagnctc acctagccgt ggtgaacacc tgtcanccta cttgcaacna 240

gcagctgctt gcattccaac ccacttgctc ttggcgaacg tagctgcatt accagcaact 300  
aacaaccagc ttgcaacagt ttaatgccag tgctcaagtc aactagctca tggatgaactc 360  
ctgccgtcta cctttacaac tactttcann tctagcccg c tttcgcggtg ggcaaatgca 420  
acctaacgta cctatncaac aacagttgct tgcaacccaa ttgtaccaag ctctgactca 480  
gnctagcttg tggcaaaacc ctgcttgctt acttacaaca agttgctttc a 531

<210> 12879  
<211> 145  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-E2

<400> 12879

agaaaaaaaa aataaaaaaaaa aaaatattaa aaatgaaaaa aatgaagaaa aaaaaaaaaa 60  
ggaagggcag acgatctaga ggatccagga ttacgtacgc ctgcatgcga cgtaataaaa 120  
attcaatagg gacaccgaaa ttcaa 145

<210> 12880  
<211> 250  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-F12

<400> 12880

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gaaagctaaa agagggcgcc cccactggtg cgaagcagcg tacgcgtggt tcgtacagga 120  
aattccggac cggttccagg aggcgtgccg gcaattccta tagtgagacg aataacacac 180  
aaaactgcaa aactataagg ttgctatcta tcttagtata acactactac tactacaaac 240  
aatccctcta 250

<210> 12881  
<211> 320  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-F5

<400> 12881

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gaatatacag agccactgga atcaagcagt ttatgggtctc actgcagagg tgcgcaagat 180  
gttattggac attgacagtg aactatttga agagtgccag cagcagtaca tggagaaaca 240  
agcgaaagcc aaagagatac atgaacaacg agaatcagca aggagacaat tggaagctgt 300  
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<210> 12882

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-G1

<400> 12882

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aaggagagag agagagagcg agagagagat ctagtagaga ggctagtagg tggtccttga 120  
acgaagatgt tggcgggtgtt cagcgggcat gtggtggagg tgccgggttga tctggtggct 180  
gagggcagtc ggacgccgtc gtccaatacg aaggcgtggc atctggtggg gcgctttctg 240  
gccgtgtccg atccggccgt gttcgagcag atcggcgacc actatcacct cgcctactcc 300  
cacaccaacc aggcgc 316

<210> 12883

<211> 159

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-G5

<400> 12883

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taaattgcaa ggccaagcag atcgcgtcca caagccata 159

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 <211> 131  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-022-Q1-K1-G6  
  
 <400> 12884  
  
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 aaaataaaaa aaaaaaaaaat taaaaaaaaa aaaagagaaa aaaaaaaaaat aaaaaataa 120  
 atatacataa g 131

<210> 12885  
 <211> 360  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-022-Q1-K1-G7  
  
 <400> 12885  
  
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 gcaagggacg ggagaggaac ccgaggaagg cgaaaatgat ctaccgcaac tggtcgctgc 180  
 tctcgtccac gagcgtgatt tgggatagag tggtcaccgt cggcctagtc gggatcttgc 240  
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<210> 12886  
 <211> 167  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-022-Q1-K1-H2  
  
 <400> 12886  
  
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 tatggctcca acaatggcag gcctaataat acgccttctt attatcgta gtgcttctgc 120  
 aagtgcatt acggcgacca tcttgcagga ttgcacgcat gctccta 167

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<211> 380  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-H4

<400> 12887

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tgtttcagaa ggcctatcgg actgccccct cgattgtgtg tatggatgag atagatgcga 180  
ttgcatccaa gagggagaat ctacaacgag agatggaact gctgatagtt actcaattaa 240  
tgacatgcat ggatcaattc caccagaata ttggatcggg aagtaacaat ttggaagctg 300  
aatcatctga aaagaaacct ggttatgtta ttgtcattgg agccacaaat aagcctgatg 360  
ctgtgatcca agctctgcga 380

<210> 12888  
<211> 286  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-A10

<400> 12888

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gacagagcta aatgtacgaa gtctaaatta atttcctgag gtagtggagt tatattggag 180  
tcatattgga actttaagac aagtgggctg cctgtgcgag tgcttttcta ccaacatggg 240  
aactgtgatg attttccaaa ggatgttgta aatcaagccc aacagg 286

<210> 12889  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-B8

<400> 12889

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 ttgatcgtec ctttcttgcg tttgggggaa accatcactg gcagtgggca cttcccccttg 180  
 acagccaacg cactgaagaa tgttctcact ggtcatgcat caaaggatgt gctgctgagc 240  
 atcgtcaatg cgatgctggg ttggcttatt gctgcaccat ttgtacttgc cgtgctgtac 300  
 gctggttcgt tcccttggtt caaggctctg gttaacaggt ttggcggcat tccatcgagc 360  
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<210> 12890

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-023-Q1-K1-D11

<400> 12890

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 ctgggcgtgt tcatgtgcta gattcgtttg aaggaaacag cattgcatcg tttcgcgcga 180  
 agccaatatt aaccaattcg aactggagg catcgttctg tcccgaggga aaccatattg 240  
 tatctggctc cggtgatggt agtgtctatg cttggaacgt tgagagcgga aaggttgcac 300  
 gctgggaaag cacagatgtg aaaccgccgc gggtgaagtg gtctccagga tccttgatgt 360  
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<210> 12891

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-D4

<400> 12891

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 ggagtctgtg ctgcggaagc gcaagcggga ggagcaatgg gcagcggaca agaaggagaa 180

ggcgctcgcg gacaggaaga aggcgctcga gagccgcaag atcatcttcg cccgcgccaa 240  
gcagtacgcc gaggagtacc acgcccagga gaaggagctt gtgcagctca agcgtgagggc 300  
ccggttgaag ggtgggttct atgtgagccc agaggccaag cttctgtttg tggttcgcat 360  
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<210> 12892

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-E10

<400> 12892

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gcatggcgga cgagaagggc gcgcagcagt ccgataggga gtgggtgggc gaccacaagc 120  
tccaggccgt cgggacgctg tggctcaacg gcacgtcttg cttgatcgcc tacgacagga 180  
tcaagccgtg catgatgacc aacgtcaaga tcattccacgc caggctgcat gctcaggctc 240  
tcacgctggc tgccttggct gggtcgcgc tggtggagta ctacgaccac cagcaagggt 300  
caggatcgaa agttcaccaa tatgcaaagc agttcctttc atctgatagc aata 354

<210> 12893

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-E7

<400> 12893

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tgaaatggct cctaaagctg ctcttgccaa gaagggtgat gccaagaccc aggccttgaa 120  
ggttgccaag gctgtgaagt ctggggcagc caagaagaag accaagaaga tccgaacgtc 180  
tgtgacattt aaccgccc aa cgacctgaa gaaggctagg gaccccaagt acccacgaat 240  
cagcactacc ggaaggacca ggcttgatca gtaccaaatt ctcaagtacc cctttaccac 300  
agaatcagcg atgaagagat tgaaga 326

<210> 12894

<211> 429  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-023-Q1-K1-F11  
  
 <400> 12894

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gcagcaacaa ctattaccat ttagccagct atctactgcc tactctcaac aacaacaact  120
tcttccattt aaccaattgg ccgaactgaa cctgtctgct tatttgcagc agcaaatact  180
actaccattt agccagctag ctacagcaag ccgtgcttcc ttcttgacac aacaacagtt  240
gctgccgttc taccagcagt ttgcggctaa ccccgcaacc ctettacaac tacaacaatt  300
gttgcccttt gtccaacttg ctttgacaaa ccagcagcc ttctaccaac aacacatcat  360
tggtggtgcc ctcttttaga ttgcttatta gatgtaattc aataataaag ttttttgat  420
gatgtatgt                                     429
  
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<210> 12895  
 <211> 380  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-023-Q1-K1-G1  
  
 <400> 12895

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accggcaagg tccgactcgt catgcgccag gccaaagacgc ttaagatctg cggaaccac  120
ctcgtggccc ccaccacgag aatgcaggaa catgccggca gcgacaaatc gtgcgtctgg  180
cacgcttctg actttgcgga tggcgaactc aaggaggaga tgtttgccat caggtttggt  240
tcggtagaaa actgcaagaa gttcaaggag ttggttgaag agattgctga gtcacttaca  300
gagaacgagg acaaggaagg tcaagatggc tcttccacgg ccggattgct ggagaagctc  360
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<210> 12896  
 <211> 178  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-G12

<400> 12896

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aaaagcacat gcttaccact aatatcataa aacgagccaa gacgattgcc tttaaagt 178

<210> 12897

<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-023-Q1-K1-G2

<400> 12897

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aacagatcga cggagtactt gtcctctcca tcgagaagct ccaggagata caggacgagc 180  
tcgagaaggt aaatgaggaa gcaagtgaca aggttatgga ggtggagcag aaatacagtg 240  
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ggctcacagc gtttatgagc catcctctat taagtgagct tctgactgaa gaaggaccag 360  
agatattcaa gtacttagac tccattgatg tggatgattc tgatgttaag gcaggatact 420  
ccattcatct taacttctct gagaa 445

<210> 12898

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-H1

<400> 12898

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agatcaccgg ctaccgatg gagaaaaaaa acatatacta tttcagagaa aataaatccg 120  
gacaaattga actttcatcg gcgcaaaaaa tcaactgggca tgcattgttc atccatccat 180

ccatggtcct cgggtccaaca ctgaatctat ctatctcgcg gtttcgccgc cagagaagca 240  
 cccacaacag ctggcgaaga agccccgattc cttaggagca gcggagctgc cct 293

<210> 12899  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-B1

<400> 12899

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 ttgctgccat gtgcttgcaa gagcaagctg ctacacgccc tcacatcggg gatgttgtca 180  
 ctgctctctc atatctcgct tctcaggctt atgacccaaa cgcccctggt caacacagcc 240  
 ggagcaacgc atctaccccc aggtccagaa accctgctgc atggaacggg gatcagcgca 300  
 gtgtgcgctc gcctaatacat caccattctc cagaccgcgc gcggagggac cctgccaggg 360  
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 caggtctgga tgacat 436

<210> 12900  
 <211> 179  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-024-Q1-K1-B12

<400> 12900

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 ggctctnaca acaatnnacc tctcnntccg gtgaccagcn ncgcgagaat nnttgaata 179

<210> 12901  
 <211> 219  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-D10

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 ggaaggggct gtcttccaag ttattgtctg atatggaatt gttccagatt atcatgtctc 180  
 ggcgtttacc cattattatt atttgatttg aaccttaaa 219

<210> 12902  
 <211> 277  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-D2

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 ccatctgtat ggtcgcgtggg agatctatct tgacctcctt tttctgttct ttttgggtctt 180  
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<210> 12903  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-D6

<400> 12903  
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<210> 12904  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-024-Q1-K1-E3

<400> 12904

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caagtacgcy ctcatcttca cctccagccc cgtcgtcctc gacgcgctcg accacctctc 240

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cgtcgggtcc ggctggcaat ccatgggtggc ctacgtcaac atcggctgct actacctcat 360

cggaatcccc atgggcatcc tgctcggatg gctattcaac cttggcgtgc tggggatctg 420

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<210> 12905

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-E4

<400> 12905

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atgttttcga aaagattatg atctgtatct tggaacctta tttcaatgga ccaaatttct 120

ttctttgcc aaaaaaaaaat ttggtggatt gacgttctgg aggatgcaag atatcgtacg 180

cttgcagca acgtaataat tctactatag gggcacctac attgaatt 228

<210> 12906

<211> 441

<212> DNA

<213> Zea mays

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cggcgcgccc gctgcacacg gtgatcggct cctccggggg agattatgtg atggtgataa 180

gctatgggcy gcccaagtcc gcgtcctgtt aaaaccatat caccatcgac ggctggcgca 240

ggtcgattcc tagttcgaac aagggttggt gccgccgccg ctgccgcgcg cggggaagag 300  
gccgtcgaca gataaactca agcagcggta gggggctgct ctgccgcagc aactcgtcct 360  
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<210> 12907  
<211> 433  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 12907

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cctgcgggat cagctcctgc ggcagctgct cctgcggatg aagctgagga tgatgatgac 180  
cttgatcttt ttggtgatga aactgangag gacaagaagg cagctgatga gcgtgctgcc 240  
gctgccaagg cctcttctaa aaagaaagaa agtggtaaat cctccgtcct tatggatgta 300  
aaaccatggg acgatgagac tgatatgaag aagctggagg aggctgtccg cagtgtccag 360  
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<210> 12908  
<211> 389  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-024-Q1-K1-G7  
<400> 12908

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agcactgaag cacagaatca taaacatgca tgcagccgga gcgctatcat ggccatggtc 180  
aaggcttgat taccgcaatt cctttccata cgttgttcga ggcctaacac atgctttcgc 240  
ttcattgcac tctaacagtt gatcgctccc ttgacatttt aaaccgacac gacaacctaa 300



taacgccaat tacgtttact gcatttcatt tgaccagcta tgggatacca aacgactatc 360  
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<210> 12909  
<211> 390  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-024-Q1-K1-H12

<400> 12909

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aagatggatg ttaacgacca tgccgatcac caaggctcca aagccagtgg aatgccaaacc 180  
aagacagatg ctaatgatca atgcagcaac caaggttttg ttacatgtcc ctttaagaca 240  
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<210> 12910  
<211> 422  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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taagatttgt tctttgtggt ggtgcacctc tgtcaagtga cacacaaaga tttatgaata 180  
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ctttcactga atgggatgat acaagtgtgg gtcgtgttgg tccaccactt ccttgcgtgc 300  
atgtgaagct tgtctcatgg gaagaagggt gttacaagat ttctgattct ccaatgccga 360  
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ag

422

<210> 12911

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-H7

<400> 12911

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gcatctaggg caggatacag aatctcatgc catcacatta tctataaacc attaccagca 120

atgctcctat gacttccaac accagggcct ttgtcctcgc ccaccccggt caagctatac 180

accgactact atgaacatat gcctaagctt cacagtcagc ccaacttata catgaacagc 240

accttgggct cgagcacatt tcactacacc ggatactaca acttgtcgt 289

<210> 12912

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-A7

<400> 12912

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gtctaatagc cgaactgggt taccagacg atgtataaca tattctgttg acagaaaaaa 120

ctggtttcac caaaccaaaa gacaacatac tctgttgaca gacacgaaac tggttccaca 180

aaaacaaaaa agaggcaaat gtgcggcgaa gtaaataaca aaaggccat atgcaag 237

<210> 12913

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-A8

<400> 12913

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tgctcgagcg gcacgcatag ggggtggtga cgctgtatac gtgggacaac cgcgatgatct 120

ggtcatgcct attggccgat gtcccatgg tgtcttcgat gcgtgcggta ctacaccggt 180  
 tgggctgact agatccactg cctgattgca ccagtcgacg gcgcgcacca cgttcttctg 240  
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 ttcgactcga aggtcattc 319

<210> 12914  
 <211> 438  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-025-Q1-K1-B1  
 <400> 12914

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 gggaagacag caggagccgc agccgcagcc catccggtgg taaccgcaac cctgcagcta 180  
 atgggcgtag cccgagcccc aaaggtgacc gtggcccgag ccccatggct gaccgtagcc 240  
 cgagcccaaa gggcaatggt aacaacgatg gtgggtgatga tgatactggc cgtgggtggt 300  
 tccccacagc aagcaagtca ccctgaacgc ttcaccgtct caattcttag gtgcttcgtg 360  
 atgcattggg caaacatacc aaaaacgttg atagctgttt cgtttccctt atttgaaacc 420  
 ttggacttaa tttaactt 438

<210> 12915  
 <211> 214  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-025-Q1-K1-B6  
 <400> 12915

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 tgattcgtgt tacacgtgct atgttctgag attcatgatt aaaaataaaa aacaaaaaaa 120  
 aaataaaagg gcttaagctc taaatgatcc atactttagt acgcactcat gctactactt 180  
 aagtcttcta tagtgacaac taaatatcaa tgct 214

<210> 12916  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-025-Q1-K1-C4  
  
 <400> 12916

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 gaggaacccg ccacagccag cagccaggc tcctctcca gtcctgttc gagatgggtg 180  
 tggtccatg tttggaggaa ttgggtccac cattgctcaa ggtatggcgt ttggcacggg 240  
 tagtgccatg gcacacaggg ctgttgactc tgtattaggt ccccgacca tccagcatga 300  
 gactcttgcc acagaagctc ctgctgctgc ccctgctgct ccagcgatga atgctgatgc 360  
 ttgcagcttc cattctaagg ctttccaaga ttgtctcaac aactatggca gcgagatc 418

<210> 12917  
 <211> 467  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-025-Q1-K1-C7  
  
 <400> 12917

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 cgttttgccc gttcaacaaa acaccgagct gtgtggacaa cctatgtgac tagtctcggg 180  
 tcgtccagga ccgagagatg acgaccgtgc aagtgatgtg gtgccaacca caagatgcag 240  
 ttggtggacg acctgaagaa tggacttaac cagtggatgc tcgccaagcg agtaccctac 300  
 cacagcaaac actatctaag tgttaaatta aaggctcttc ttaggatgat tggttgctgg 360  
 tgtgacttgg cttcatccc tgccaccggg atagatggtc gagtgggtta ttgcttcgcg 420  
 aggagaggac caggaggagt agcgtggcta ggcttcgcca tggtact 467

<210> 12918  
 <211> 430  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-D1

<400> 12918

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tatgtctgact acatcttcgg caacgaaact gaggcaaaga tctttgccaa agtcagagga 180  
tgggagactg agaattattga ggagattgct ttgaagatct ctcaacttcc tttggcttca 240  
ggcaagcaaa agaggattgc tgtgattact caagggtctg atccagtggg tgttgctgag 300  
gatgggaagg tgaaaacgtt ccctgtgatc ctattgccca aggagaagct tgttgacacc 360  
aacggcgcaa gtgatgcttt cggtggaggc ttcctctcac agttggttct aggcaagggc 420  
attgaagact 430

<210> 12919

<211> 137

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-D10

<400> 12919

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acagcttcat caacacatcc tgcgggaagg tcaagatatt ggaacctcct taaggcttct 120  
tgatgaatta tgaatgt 137

<210> 12920

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-D11

<400> 12920

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aacagcacca acaacaacat caagggtgaag gccacaaca acatcaccaa caatcacaag 120  
gccatgtgca acaacacgaa cagagccatg agcaacacca aggacagagc catgagcaac 180  
aacatcaaca acaattccag ggtcatgaca agcagcaaca accacaacag cctcagcaat 240

atcagcaggg ccaggaaaaa tcacaacagc aacaatgtca ttgccaggag cagcaacaga 300  
ctacaaggtg cagctataac tactatagca gtagctcaaa tctaaaaaat tgtcatgaat 360  
tctaaggca gcagtgcagc ccttttgtaa tgccttttct ccaatcacgt ttgatacaac 420  
caagtag 427

<210> 12921  
<211> 402  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-025-Q1-K1-D12  
<400> 12921

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tttttttttt tttttttttt atgggtttgt tttctctttt gtttatattt ctatatattaa 120  
atattttctaa aaaaacaacc aacccttttt aagaaccaa atttactaca ttaatcttaa 180  
aaaataaaat gaacctataa ggttacccaa attcaattca attagccatc atactaaaaa 240  
actattgact taaaaaaacc taaactaacc caacataatc acctttttaa acatatcaca 300  
ttaaaaaact atttgaaacc caaaaagccc caaccaaag ccatttccaa tcattaaaca 360  
acactaatte tgaaaggagc catccctata tcccttcata aa 402

<210> 12922  
<211> 470  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-025-Q1-K1-D6  
<400> 12922

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gacgactccg ccaccgagc cgtctacgc gaggggcca ggtcttcgcc aacgacgagc 120  
atccgggtta gagaggaaga aattgcaacc gaaacaatgg cggcagattc cggcgctcgc 180  
agacaaccaa gttcaccaa ggtcgaccag ctgcgccttg gaaccacgg ccacaacctc 240  
atcctcaagg ttgttgactc caagatggtc gtccagagag gccgagaggg agggccccag 300  
ggaagacaga tgaggattgc ggagtgttg gttggtgatg aaaccggcat cattgtcttc 360

actgcaagaa acgatcaagt ggatgtaatt aggcctggaa caactgttga actgaggaac 420  
gcaaagatcg acatgttcaa gggttcgatg cggcttgacg tggacaagtg 470

<210> 12923  
<211> 374  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-D8

<400> 12923

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cagattcaga cattgcaacg gttttatggg tagcctgcct gaagggctgc cacctaatacc 120  
ctgccgatcg gggcaatgct attctgggaa atgctatgct tgcacttgta ataactgccg 180  
cttctctgac tgagcttcgt ttgcagctgc tggacttcaa tcatgccgct tctctgtgat 240  
tgagcttcgc ttcctttttg ctgcagctac ttttcgtcgt acaagtgggt accaacagct 300  
gcagtagatt tgggtgggtgt ttgcattcta agtactcatg gttagacgcc ttatctgaca 360  
cttttataat gatc 374

<210> 12924  
<211> 465  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-E4

<400> 12924

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ttgttccttc gtcacacaac tgtgatgggc cgcagtgtgaa ccgtactgag tatcagctga 120  
ttgatataac agaggatgga tttgtgagcc ttcttacttc agatggcaac actaaggatg 180  
atcttagact cccaactgat gagactcttg tggcccagat caaggaaggg tttgaaagtg 240  
gcaaggatct tgttgtgact gtccagtctg ctatggggga ggagcagatc tgcgcgctga 300  
aggatgttgg cccaagtaa cttccctgcc ttggaatact gtatctcaaa acctaaatcg 360  
aaaaaagaag tgtatcaagg attgctacag agacatccat ctggcttgag ctggcttttg 420  
ctatgtcaaa cacaagtga gggatcgctg ggtgttgac cgtgt 465

<210> 12925  
 <211> 333  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-E5

<400> 12925

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 tcccacatcg cgttcactct tgctgggctc taccgtgtcg tccatggcat cgatgttttc 120  
 gatcccaagt tcaacattgt ctcccctgga gcagacatga gtgtttacta cccgtatacg 180  
 gaaaccgaca agagactcac tgccttccat cctgaaatcg aggagctcat ctacagcgac 240  
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 atggcgcgctc tcgaccgctg gaagaacatg aca 333

<210> 12926  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-E6

<400> 12926

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 gtgtatgggtg gagatggaat tggccgactc caagaaagac cttaaagact acgatttctg 180  
 atgaggttac ctggaagttc ctttgacatg ctatcttgta tttgggcact aatgttgtct 240  
 gtctaagtgt tttctaccac ccaatcttat ccaagatggg taacaagggg tgcacatggc 300  
 atgaagttgt ttccaatccg tttttatatt aacgaggaag tgatgagtga ggcacatggg 360  
 cgctttctga tgctgtatac gaattattag aatgagatgg tttagccaca tctttgaact 420  
 gagggtagaa cctg 434

<210> 12927  
 <211> 232  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3059-025-Q1-K1-E7

<400> 12927

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ttggtcctcc ttgcgcttct tgcccttaga gtgggaggca acaaatgcag ttgattatta 120  
ccacagagca ttacttgctc catagctgca caggcttcca aaatctactc ctactcagtt 180  
acattcaatg tcatcaggaa cattcatcac gtgcaagcac tacacagcta ct 232

<210> 12928

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-E8

<400> 12928

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cccacacac actgggatat gccgatatg aaaccaact gtgtatcacc taattcatat 120  
atcaaactat ggatttagga gccctgttac ttcagatggc aacactaacg atgatcttac 180  
tactaccaac tgatgacact cttgtggacc atatcaacga agggttttta agtggcaaag 240  
atcttgatgg gactgtacaa tctactattg ttgaagatca aatatgcgcg ctgaacgatg 300  
ttggccacaa gtaacttccc tgtcttgga tactgcatct gaaaacctaa atcgaacaaa 360  
taagtgtatc aatgattgct acagagacat acatatggct tgagctgcct gttgctatgt 420  
caaacacaag tgcaaggatc gctgggtgtt gcac 454

<210> 12929

<211> 405

<212> DNA

<213> Zea mays

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<400> 12929

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atggcaggag cgaggagttc taccgtcttc cttatggctt gagcaggtag tccccctcgc 120  
tctaggacgc cgggaggaag acgacggacc caagttctat gtagctgctc gagcgtagaa 180

gctgaacatc agttgaaggc aacagaacca tatgttattt tcatatatca agcagttggg 240  
 agggagcttg atgttttgat ttaccttgta aaacattttg gatgataaac ttttgcaatt 300  
 actgggagag taggatcaac caggggagaa ttctgcaaca attcagtcac cgtttttgct 360  
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<210> 12930

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-G5

<400> 12930

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 accaagatat tatccgtctt tgcgcttctt gccctttttg tgagcgcacc aaatgcgttc 120  
 attattccac aatgctcact tgctcctagt gccattatc cacagttcct cctccagtt 180  
 acttcaatgg gcttcgaaca cccagctgtg caagcttaca ggctacaaca agcgttgcg 240  
 gcgagcgtct tacaacaacc aattgcccaa ttacaacacc aatccttggc acatctaacc 300  
 atacaaacca tcgaaacgca acagcaacaa caatttgtac cagcactgag ccaactagct 360  
 gtggtgaacc ctgtcgcta cttgcaacag catttgcttg catccaacc acttgctctg 420  
 gcaaaca 427

<210> 12931

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-G8

<400> 12931

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 ggtaatgcaa cttcttgtcg gatcgaagat cattgaagtt gacaacagtg tgagagagga 120  
 tcgtgctctg ctgaatgggt cacaaaagtt gcttgggtatc ttgatcgcta ttggggaagc 180  
 tgtggcatat gtctgtctg gaatgtatgg tactgtaagc caacttggaa caggtaatgc 240  
 tattctcatt atacttcagc ttttctttgc tggcatcatt gtcctctgct tggatgaact 300

ttttcagaaa gggtatgggt tgggatctgg tatctttctg atcattgcta ccaatatctg 360  
 ttagaatatc atct 374

<210> 12932  
 <211> 157  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-H10

<400> 12932

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 accaacaac atataatacc atttattgta catatcacat atataagacc tacatcatcc 120  
 atattttcta tactcatacc tatgacatta attttac 157

<210> 12933  
 <211> 318  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-H11

<400> 12933

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 caacctaaca acaatggctg gcaaggtatt atccctcctt gcgcttcttg cgctttttgc 120  
 gagcgcaaca aatgcgtcca ttattccaca atgctcactt gctcctagtt ccattattcc 180  
 acagttcctc ccaccagtta cttcaatggc cttcgaacac ccagctgtgc aagcctatat 240  
 gctacaacaa gcgattgcgg cgagcgtctt acaacaacca attgccaat tgcaacaaca 300  
 atccttgga catctaac 318

<210> 12934  
 <211> 432  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-H7

<400> 12934

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tggagtcgac caatattcaa caagagcacg agatttgagg acatgaagag atatgatgat 120  
 gaaagagcac cttacaggcg gccacaaatg aagaaacctt catcgagtag ctctggaatg 180  
 gaatccagag atgatgatct tgatgctgac ttttcacaac gcaagtctgg gcaaagtagt 240  
 tcaaggcagc acgcttctag gccggaagcc tcgcctttgg actttgtcat tcgtccacag 300  
 tccaaaattg accctgagca gatacgggct cgtgctaagc aggctgtcca agaccagcgt 360  
 cggtgaaga tgaacaagaa attgcagcag ctgaaagcgc ccaagaagaa aaaccttcag 420  
 gcgtcgaagc tc 432

<210> 12935  
 <211> 312  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-026-Q1-K1-A3  
  
 <400> 12935

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 ttgatcctcc aacaatgggc aggctatta cagcagtaac ctttgatcc tatcggttg 120  
 aagaatcggg ttttcacata ccgaagacac cgctggtgag aggtacggtg gaagaaggga 180  
 agctatagga gcttgtgagc attgcgggaa aatggtcgcg gtagcagcac ttgcacaaag 240  
 accaaggagc ataaggaggc aaaatatattt ggctgccatt gttggtacac tattgcgctt 300  
 tctatgttgc ta 312

<210> 12936  
 <211> 332  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-B10  
  
 <400> 12936

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 gtgatcagta actcatcttg caggacggga gtcaaagtcg ggctctattc agtgggcatt 120  
 aacaaacgac atgtatacac caaacgcgag ctgactcatg gccagtacca cacaaaagg 180

atagcatcca agaagccgta ctatcgatcat ttactaatac acagaggata acaggaatag 240  
 attttatcat aagcgctca tcactaac taagggtgac actgacaatc cacatcagat 300  
 cattgccact agaaacattg ctactaaca ca 332

<210> 12937  
 <211> 452  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-026-Q1-K1-B11

<400> 12937

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 gcctttttac ttcaagattg gggncctgtc gtcattggga tcgctgttct cgtctgcaca 180  
 acaggccaac tatatcgcca actcttgtgc ttgctaactat gtatcagcgc cctgatatga 240  
 taactcctgg agttgatgct caaggccaac ctattgatcc tgagaagatg caggagcatt 300  
 ttgaggactt ctatgaggac atctatgagg agttgggcaa gtttgggtgag attgagaatc 360  
 tgaatgtttg tgataacctt gctgaccaca tgattgggaa tgtctatgtt cagttcagag 420  
 aggaagaaca ggcagctgca gcatacaatg ct 452

<210> 12938  
 <211> 223  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-026-Q1-K1-B4

<400> 12938

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 cagagacccc actcagaata ctaagcctac tcttacacct ccaagacctt cacaacctg 180  
 gcttacacca tcctaataca cttctacatc atcctcaata acc 223

<210> 12939

<211> 271  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-B8  
  
 <400> 12939  
  
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 agagatgcag aagggtaggg gccaccacac cttgacggcc gcccgcgtcg cggcgcgcgtc 120  
 caagggcaag tcgtcggcgc cgaaccctag cggcaaccac gctgcgacgc cggcgccatc 180  
 ggggacgcct tcaaagggca agtcggcggc agcgcaggcc gcggctttgg gccacggttc 240  
 ctctctccac caccactctg ccggcgggtgg c 271

<210> 12940  
 <211> 288  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-C12  
  
 <400> 12940  
  
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 gatattaatg caaatattat cgagttgggc aaaaaaaaaa aaaaaaaaca attaaaaaaaa 180  
 aaaaaaaaaa acaaaaaaaaa aaaaaaaaat aaaaaaaaaa aaaaaaaaac acaaaaaaaaa 240  
 aaacatataa tctaaaaaaaa aaaaatcaca gcacgtatca ttccaaca 288

<210> 12941  
 <211> 324  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-C2  
  
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 agtttggttg gctagtaaata gtaatgttat cttaggtggg attactaat cgggccagta 180

atgttgaatt ctagctggaa cgcgtaatg tttgatgcac cgaagtcgct tgcagtaggt 240  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-026-Q1-K1-C3  
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 cactggagac tgcgtagctg ctactttga acacaaccac taccgatgtg gactaaacgt 180  
 gccatatcca agaaaattgt caaaccagcc ctacaagtct ca 222

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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-026-Q1-K1-D10  
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 accaagtagc tctggcaaac ctttctccct actctcagca acaacaattt cttccattca 180  
 accaactgtc tacactgaac cctgctgctt atttgcagca acaactatta ccatttagcc 240  
 agctagctac tgctactct cagcaacaac aatttcttcc atttaaccaa ttggccgcac 300  
 tgaaccccg cgtttatttg cagcagcaaa tactactacc atttagccag ctagctgcag 360  
 caaacctgct ttccttcttg acacagcaac agttgctgcc tttctaccag cagtttgccg 420  
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<210> 12944  
 <211> 304  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-D9

<400> 12944

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cctccaacaa tcatcagccc tattacatca cttacctttc gtgcatatat tggcacaaaa    180
catcagggta caacaactac aacaacttat gtaacaaaac cttgctgact acgttcagca    240
acagcagcta cttttggtgc aatagctgtc acaatacatc atggcacaac aactacaaca    300
actc                                           304

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<210> 12945

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-E11

<400> 12945

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ctgcagcggt tgcagcacc ccatcctggg ccagtgcgtc aagttcctga ggcatcagtg    180
cagcccgacg ggcacaccct actgctcacc taagagccag tcgttgctga agcagtgtta    240
ccagcagctc acgcaggtgg agcctcagca ccggtaccaa gcgatctatg gattggacct    300
gcagtccatc ctgcagcact agccgcaaag tggccaggtc gctgagctgt tggcagctca    360
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<210> 12946

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-E12

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catgtgtcgt accccgtgca atgcgtggct ggcgatgggt gatttctctg tggcaaactt 120  
cccgtactgc atgggggtgt aagctgtctc taaatttcac ggcaagtcac gtgcctgaac 180  
cttcatctta agttgttgtc gtatcccttc gtcttgcttc ggttgcaccc cgtgatggta 240  
tggattggct gctgaccact tgatctaacc aaaagtaaaa ct 282

<210> 12947  
<211> 189  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-026-Q1-K1-E3  
<400> 12947

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acatgttcgc acatccatct ctgcatggta cctcttcttc agatactcca tactctctca 180  
ccacctaatt 189

<210> 12948  
<211> 240  
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<213> Zea mays  
<223> Clone ID: LIB3059-026-Q1-K1-F1  
<400> 12948

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gcctgactgc cggtaacgga gggcagctgt ggtgtagtat atctcagtca catggggaggc 180  
gtagataat ttttgaccaa atgttataaa ataagacact attaaatagt ttttttatat 240

<210> 12949  
<211> 419  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-026-Q1-K1-F10  
<400> 12949

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 cgtacagtcc ttgacgacag gcgaaactta catgtgtgga ctagctataa tcgtgccgcg 180  
 ctccctcttg atgaaactgt acccgcaaca ccgactcttg gtcagctgac catccgcctt 240  
 gttccttaac tggtcacctt tagcaggact acagctatgc attagacctg cgtttgctac 300  
 aagatgttca actagtgcac gtacatgtat atggatgccc acctcgcgta cgcgcaggta 360  
 tgttcaattc acagaggaaa cacaatagca tgtatgcagt gtttttctta ccacacata 419

<210> 12950  
 <211> 309  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-F3

<400> 12950

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 tgctgctg acttgcacgc tgcttccagc ttatggacct gcagcttgtg gggaaccagc 180  
 tctttggggc actccttccg gagctagacg cactatctag tctcaccgtt ctagatttgt 240  
 ctaataacaa gatctctggg gagattcccc tagcgttggc tgggtacacg tctttggagg 300  
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<210> 12951  
 <211> 64  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-F6

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<210> 12952  
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 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-G1

<400> 12952

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tgagataccg cttgattgtc cgccgtctca cctgtgccac ggacgaccac tctctccaca 180

acgccttttag cacctacagt gaggtcctcg actccaagat catcctcgat cgggagacgc 240

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ttcgagggca tgaacggcaa gga 323

<210> 12953

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-G2

<400> 12953

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cccagctgtg caagcctata ggctacaaca agcgattgcg gcgagcgtct tacaacaacc 120

aattgccccaa ttgcaacaac aatccttggc acatctaaca atacaaacca tcgcaacgca 180

acagcaacaa cagttcctac cagcactgag ccacctagcc atggtgaacc ctgtcgctta 240

cttgcaacag cagctgcttg catccaacc acttgcctta gcaaacgtag ttgcaaacc 299

<210> 12954

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-H12

<400> 12954

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gctgggcctg gtcattgtga acgagtgcc tgcggttggg gcgcctgtct aagctgctct 120

ctagcattat tcatgcgatg ctgttttcga atgggtatct cattaataag acacctatga 180

aactactacc atatacacac cttgaaacca aactttctga gattcattac cttctgatat 240  
cctatgctga tggaacatac tctggactct tcaccattca tacttacacc atcctgtgat 300  
cttggagtaa caacttctac tttggcgacc gttctagatg atccaacctt acgtacgcat 360  
ccatgcttaa tgctacctct tctatactgt cacctaaatc taattcaata gc 412

<210> 12955  
<211> 75  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-026-Q1-K1-H4

<400> 12955

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tagctcagcc ggacg 75

<210> 12956  
<211> 348  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-H6

<400> 12956

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tgatgacacc tttgttgatc gccttggtggc atctcgagtt ttgaagactt gtaacattca 180  
agtgacaatg gtggagggcc caaagcaagc cttagatttt ctagatgtgg agaatgatgt 240  
aaatttgatt ctgaccgatt attgtatgcc tggatatgact ggatatgatc tcctaattgga 300  
ggtgaaggaa tcaccaaagc tgaagcacat gaggagtatt ggtcatgt 348

<210> 12957  
<211> 375  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-A1

<400> 12957

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 aatgctcaca agctcctata gcttcccttc ttcccccata ccttccatca attatagctt 180  
 caatatgtga aaaccagct cttcaaccat ataggcttca acaagcaatc gcagcaagca 240  
 acataccttt atcgcccttg ttgattcaac aatcgccagc cctatctttg gtgcagccat 300  
 tggtaaaaac catcatggca caacagctgc agcaactcgt gctacctttg atcaaccaag 360  
 tagctctggc aaacc 375

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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-027-Q1-K1-A4  
 <400> 12958

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 ccttaagggc aggggttaaac cgacctatcc ccacttgtc aaaaatggag acatgtgcat 180  
 tgtacttaat gcacaggata tcagtgttac atgaaggaaa atgaccgata agatttacta 240  
 ttggcataca cggtatgttg gccatttgaa ggaaaggagg ctcaaggacc agatggagaa 300  
 agacccaact gaagtgatcc gcaaagctgt gttgcgcatg cttcccagca tcatactgcg 360  
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 ccctatggaa ccttatgtga tg 442

<210> 12959  
 <211> 329  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-027-Q1-K1-B5  
 <400> 12959

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gctcctatag cttctcttct tccccatac ctctaaccag cgttgtcttc agtatgtgaa 180  
aacccaattc ttcaacccta caggatccaa caggcaatca cagcaggcat cttaccttta 240  
tcacccttgt tctccaaca atcatcagcc ctattacatc aattaccttc ggtgcattta 300  
ttggccacaa aacatcaggg cacaacaac 329

<210> 12960  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-027-Q1-K1-C1  
<400> 12960

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tctgatgttt gtggcttccc agaaataaga aagtacattt ct 162

<210> 12961  
<211> 277  
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<400> 12961

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gggggtgggg tgggggggtgc gttgttttta taactgtctt ttttccata gttggaagtt 180  
ttcttactca attgaatgaa cgagggaact tattgcatac tatcaaatgt tttgtgatat 240  
ggtgttgagt aattatcaac accttgatt ttaaaaa 277

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<213> Zea mays  
<223> unsure at all n locations  
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gatcccttac cgcgatcgct ccccaagtcc atatcgagcc cgtcgtcgtg accgatcccc 300

gagcccttac cgcgatcgcc gcgaccgctc cccgagccct tatcgcgatc gccgcccga 360

gtggtcacc taccacaacg accgcggccg ggaccgtgac cgggtcctgc ccgtccgtag 420

cggcagaggc gcctggtccg atga 444

<210> 12963

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 12963

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acaatgctca caagctccta tagcttccct tcttccccca tacctctcac cagcgggtgc 180

ttcaatgtgt gaaaacccaa ttgttcaacc ctacaggatc caacaggcaa tcgcaacagg 240

catcttacca ttatcacctt tgttctctca acaaccgtca gccctattac agcagttacc 300

tttggtccat ttggtggcac anaacatcag ggcacaacaa ctacaacaac ttgtgctagc 360

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gaactctg 428

<210> 12964

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-E2

<400> 12964

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ctcaaccagt ctgttgcaaga cttgtagctt tgggtgtaca tagtttatcc tttttttcat 180  
agggtagaaa ggaaagcgta attatccttc gcaaaagctg ttaactgtgt attgaggcag 240  
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attggtaaaa aagatgcaac 320

<210> 12965  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-E4

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-F7

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<211> 254  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-F9

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 ttgtgaagag atttcaccca atcaatgaaa gaaaacatgt atcttgttga tggctatagt 180  
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 aaaaacaaca aaaa 254

<210> 12968  
 <211> 263  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-027-Q1-K1-G4  
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 ttagtgatgg gaatctaacc ttattgttgt gttgtgggta ggccagccaa ggcctattg 180  
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 <213> Zea mays  
 <223> Clone ID: LIB3059-027-Q1-K1-H12  
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 gaagccggcg gctgcattcg taaacacact aagtcaccag tcgccgccga gaatgccata 240  
 cttctcgtcc tattccgagg agcaccagaa ctgccgcttg atctgtaact ccaaggggtt 300  
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<210> 12970  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-028-Q1-K1-A4  
  
 <400> 12970  
  
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<210> 12971  
 <211> 142  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-028-Q1-K1-B5  
  
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 <211> 385  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-028-Q1-K1-B7  
  
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 aaatactact accatttggc cagctagcta caacaagccc cgcttccttc ttgacacaac 180  
 aacaattgct tccgttctac cagcaatttg tggctaaccc cacaaccctt ttacaacttc 240  
 aacaattgct gccctttgtc caacttgctt tgacaaaccc aacaaccttt taccaacaac 300  
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<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
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cttgcacttc aaggaagaca agttcaagcc aaacatggac aaggaaaaag atccgatgtc 240  
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aatagccaaa gcttgggtctg atgccaggtc tgggaagacg actgattcga tgagcggatt 360  
acgttgagct ggtataatca gttgatgggc ttaagttttc tgcgctagcc cctgcagccg 420  
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<210> 12974  
<211> 375  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
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ttgccccaat gtccctttcc aagaaattgt tgaaaaatac ataacctatt cctaacttga 180  
tggggttccc aaaaatcctt gatgccgatt ctagacaaga ataaccatg gttatgcttg 240  
aactccgncg tgaatcccct tcatggccaa ggggttcctt attgcagtaa ggcatataga 300  
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 aa 62

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 gctgcacagc aagctgaccc agatgtcctt tcccaagaca tgctgaacaa atacataacc 180  
 tatgctaata tgaatgtggt tcccaaaata catgatgccc atctagacaa gattaaccat 240  
 gtttatgctg aacttcgtca tgaattctct catggccaag tagtgtctat tgcaataagg 300  
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 gggg 64

<210> 12978  
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<212> DNA  
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<223> Clone ID: LIB3059-028-Q1-K1-E11

<400> 12978

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 <212> DNA  
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<223> Clone ID: LIB3059-028-Q1-K1-E6

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 gttgctaacg cgacaatttt ccttcaatgc tcacaagctc ctatagcttc ccttcttccc 180  
 ccataccttc catcaatgat agcttcagta tgtgaaaacc cagctcttca gccctatagg 240  
 ctccaacaag caatcgcagc aagcaacata cctttatcac ccttggtggt tcaacaatcg 300  
 ccagccctat ctttggtgca gtcattggta caaacatca gggcacagca gctgcagcaa 360  
 ctctgtgctac ctgtgatcaa ccaagtagct ctggcaaacc ttcc 404

<210> 12980  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-F11

<400> 12980

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 cggaaccggg ccttcaccaa ggtggtcggc aacttctctg cgctcgacta catgcgcctc 180  
 tccaccatct ccgccgtctc cgtcaccggt ggctacctct ccgggatcaa gccggggatc 240  
 cggggcccgt cgatggtcac gggcggcctc atcgggggtca tgggaggggt catgtacgcc 300  
 taccagaact ccgccgggcg cctaattggga ttctttccca acgacgccga ggttgccgcg 360

tacaagcaca agcttcattg aggatccagc tccattccgt ctctcttttc gcaa 414

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<211> 413

<212> DNA

<213> Zea mays

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<400> 12981

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gtaccaacaa tggtagccaa aatattttgc ctccattatgc tccttggtct ttctgcaagt 120

gctgctacga cgaccatttt cccgcaatgc tcacaagctc ctatagcttc tcttcttccc 180

ccatacctct caccagcggt gtcttcagta tgtgaaaacc caattcttca accctacagg 240

atccaacagg caatcacagc aggcattcta cctttatcac ccttggtcct ccaacaatca 300

tcagccctat tacatcaatt acctttggtg catttattgg cacaaaacat cagggcacaa 360

caactacaac aactcgtgct agcaaacctt gctgcctacg ctacagcaaca gca 413

<210> 12982

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-G5

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acaatgctca caagctccta tagcttcctt tcttccccca tacctctcac cagcgggtgc 180

ttcaatgtgt gaaaacccaa ttgttcaacc ctacaggatc caacaggcaa tcgcaacagg 240

catcttacca ttatcacctt tgttcctcca acaaccgtca gccctattac agcagttacc 300

tttggtccat ttggtggcac aaaacatcag ggcacaacaa ctacaacaac ttgtgctagc 360

aaaccttgct gcatactctc agcaacatca gtttcttcca ttcaaccaac tggctgcatt 420

gaactctgct gcttat 436

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 aaaaaataaa aaaaattaaa ataaaaaaaa aaaaataaat taaaaaacat atattacata 120  
 aaaaataact taaatatatc aaaacttaat tattaaacca tataacttaa aaaata 176

<210> 12984  
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 <212> DNA  
 <213> Zea mays  
  
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 accggcggca aggcgccgcg gaagcagctg gccaccaagg cggcgcgcaa gtcggccccg 180  
 gccacgggcg gcgtgaagaa gccgcaccgc ttccgccccg gcaccgtcgc gctccgagag 240  
 atccgcaagt accagaagag cacggagctg ctcatccgca agctcccctt ccagcgcttc 300  
 gtccgcgaga tcgcgcagga cttcaagacg gacctgcggt tccagtcgtc ggcggtggcg 360  
 gcgctgcagg aggccgcgga ggcgtacctg gtggggctct tcgaggacac caacctctgc 420  
 gccatccacg ccaagagggt caccatcatg c 451

<210> 12985  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-028-Q1-K1-H11  
  
 <400> 12985  
  
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agtcctata gcttctcttc ttccccata cctctcacca gcgttgcttt cagtatgtga 180  
aaaccaatt cttcaaccct acaggatcca acaggcaatc acagcaggca tcttaccttt 240  
atcacccttg ttctccaac aatcatcagc cctattacat caattacctg tgggtgcattt 300  
attggcacia aacatcaggg cacaacaact acaacaactc gtgctagcaa accttgctgc 360  
ctacgctcag caacagcagt tacctttggt gcaattgttg gcacaaaaca tc 412

<210> 12986  
<211> 467  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-H5

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actgcttcct aaaccgtaaa tccgctcatg ttacattcag ctatccataa taccttcaag 180  
attcacatat tgccatgaac agattccata tgcagagacc tgattatgga ggcctataac 240  
atcccattgg attgcagcat tcagacacca ccttaataag gttctactta ggcaacatcc 300  
agaaccgtca ttcttttgag aagcctggga cgattaacga ctcaagctat gaatactctt 360  
tacctgcgac gacttggtgt cagcatatga agcagctatg ctccacaagc agtctttcgg 420  
tgatgtacat ggagctcttg catagagtag tgtatgtggc aattatc 467

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<211> 361  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-H6

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gttctgctct gaataaaagg ttggagtgat gggtctcttc ctaggtagtc gggtattatc 180  
tccaggggat ctttatcttt ctttttttcc tttttgaatg aagctataga aggtctgctg 240



actgtctcga gatatttact tttcgtaaca gactgataag tctgatcttt gagccattct 300  
 gttttccgac gtcatttgtt tgaccattta gttaagctgg aatacaaaag atatcgctaa 360  
 c 361

<210> 12988  
 <211> 453  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-B7

<400> 12988

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 gacccaactg atgcaacagt gctctcaaac agaagcctgt gctggctgcg ggcagggcaa 180  
 gctgagcgtg ctctggagga cgccaaagca tgccgtgcat tgagaccaga ttgggcgaaa 240  
 gcctgctaca gggaagggtgc ggcgcacgt ctgttacaga ggtttgagga agccgcaaac 300  
 gccttctatg aggggggtgca gcttgagccg gagaacacgg agctcgtcaa cgcattcacg 360  
 gaggccatcg aagccgggag gaagttccat ggcgtgaaca cgccaaactc aacacaatga 420  
 gactttgctg ataggggtgga taggtagatg atg 453

<210> 12989  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-B9

<400> 12989

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 caccggtacc aagcgatctt ctgcttggtc ctccagatca tctgcagca gcagccgcaa 180  
 aacggacaag ttgcggggc 199

<210> 12990  
 <211> 80

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-029-Q1-K1-C11  
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 cgcaaccctg gtgaactaca 80

<210> 12991  
 <211> 95  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-029-Q1-K1-C3  
 <400> 12991  
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 actgtcacct aacaataatt cactccccgt ggctg 95

<210> 12992  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-029-Q1-K1-D2  
 <400> 12992  
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 ctctacgtcc ggggcaccgt ccttggatac aagcgggtcca agtcgaacca gtacgagact 180  
 acgtcgctgg tgcagatcga ggggggtgaac accaaggagg acgtcgctg gtactgcggg 240  
 aagcggatgg cctacatcta caaggccaag accaagagca gcggcaccca ctaccgctgc 300  
 atctggggca aggtcgcccg cccgcatggc aactccggcg tcgtccgcgc caagttcagg 360  
 tccaacctgc cgccggaatc catgggccgt aaggtcaggg tgttcatgta cccagcagc 420  
 atctaaagat aatctgaatg t 441

<210> 12993  
 <211> 423

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-029-Q1-K1-D9  
  
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 gacaggggaa ttaatggcgt cgtcgtctag cagcagccac cgccgcctca tctcgcagc 180  
 cgccgtcctg ctctccgtgc tcgaggctgc cagcggcagc gccgggacct cctgcgtgcc 240  
 ggggtgggccc atcccgacaca acccgctccc gagctgcgcg tggtagctga ccagccggac 300  
 ctgcggcatc gggccgcgcc ttccgtggcc ggagctgaag aggagatgct gccgggagct 360  
 ggccggacatc ccggcgctact gccgggtgcac ggcgctgagc atcctcatgg acggcgcgat 420  
 ccc 423

<210> 12994  
 <211> 409  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-029-Q1-K1-E10  
  
 <400> 12994  
  
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 ccaccacact ttagctcccc actgctatag gcagcccaca tgccgcgaca ctcttaagct 180  
 agctatagca gcaaggcagc cagctgagct cagagctccc agtccagcgc cggcgccacc 240  
 accgcagctg ctcgctggtc accatgagca aggagaagca ccaccgcgac tggatcctcc 300  
 ggcgctgctg cggctccatc accgactgca tactgaatct atgcatattt gtaagcttga 360  
 tagggctgat aatgtaccta gcgctgcccc ccttcaagcc gaacttcta 409

<210> 12995  
 <211> 451  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-029-Q1-K1-F10

<400> 12995

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aagaatcgcg gcacaacaac tacaaggaca gttgctacca acaatcaatc aagtagttgc 120

agcgaacctt gttgcttacc tcgagcaaca acagtttctt ccattcaatc aactagctgg 180

ggtgaaccct gctttctact tgcaggcaca acagctacta ccatttaacc aacttgctcg 240

gagcccttat gccttcttac tgcaacaaca gcttctgccca ttccatctgc aagctgtggc 300

aaacattgct gctttcttga gacaacaaca tttgttgcca ttttaccac aggttggtgg 360

aaacattaat gccttcttgc aacagcaaca attgctacca ttctaccac agaatgcggc 420

aaacatttgt gcctttttac aacaacaaca a 451

<210> 12996

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-F12

<400> 12996

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tggacgccgg cggaggcggc gtcttggtcg ccgttctctg catgctgctg gtcttcgcca 180

tcttccccct cctctcttgg cgccgtcgtc ccgatgccgg caccgccgat aaccaccg 240

tgccggccca gccctccac gaggatcagg tgctgcacgg tcgctcgtcg gcgcgacgga 300

tgctgcggag gcctggggct gccggagcaa gctcctctac tgctgcaact agccccaatg 360

ctgtagaaga cga 373

<210> 12997

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-F3

<400> 12997

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cagagttttt ctatcttata tcctgaattt gttatcccaa agtttcctgg ctttttaact 120  
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 aaaaaataaa acgaaaaaca tatac 205

<210> 12998  
 <211> 63  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-F9

<400> 12998

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<210> 12999  
 <211> 375  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-G12

<400> 12999

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 tgcgtatgat ttccacatca aatgactttc cacgctacct tcccagacac cttcagccag 180  
 tgcccagctc cagttaatct tatgccccca tgtcctccat tttcatgctt tgctcaagct 240  
 tttggaagtg cctgaactga tttggaaccg caagccttcc agtgggtgctt tagaaacttg 300  
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 cagataatat gggac 375

<210> 13000  
 <211> 345  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-G6

<400> 13000

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cgggaggtgg cgggggctac ggcgacctcc agcgcggggg cggcatgcac ggcgaggcgc 180  
agcagcagca gaagcagggc gccatgatga cggcgcctca ggccgcgacg gccgcgacct 240  
tcggcggggtc gatgctgggtg ctgtccgggc tgatcctggc cggcacctgt atcgcgctca 300  
cgggtggccac ccccggtgctg gtgatcttca gcccggtgct ggtgc 345

<210> 13001  
<211> 327  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-H10

<400> 13001

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ttgagtaccg ttgattcgct gccggcctca cctgggccac ggacgaccac tagctacaca 180  
acgccttcag caactacggc gaggtactag agtccaagat catcctcgat ccggagactc 240  
ataagtccgc cgattatgct acgtcacctt ctccacggag gaggcgatgc ggaacgccat 300  
agacggcatg aactgcaagg agctgga 327

<210> 13002  
<211> 388  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-029-Q1-K1-H3

<400> 13002

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tcaatatcat tatgcagctc caagttccta tcgcatgatg ttcagactgt tagacgaaga 180  
accgctgata ttgtgatagt gaattggtca gatgaaaatg ataagctatt gcaacaacac 240

atcacatata cattgcctat tacatgctgc tatgaagatg ctaactatga gtggatcaac 300  
atcagccact gctctgttag agctttcgta gacctgtaag aaacgaaggc agcatcagct 360  
gatcatggac cactgactgaa atctctct 388

<210> 13003  
<211> 81  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-029-Q1-K1-H4  
<400> 13003

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ggaaaaaaaaa aaaaaaaaaa a 81

<210> 13004  
<211> 342  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-029-Q1-K1-H7  
<400> 13004

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accctagtga ctctatggtg gatacttgat cctatTTTTT gctagaagct ttcgcattga 180  
cctgtcaacc cgctaggtca cgcctggtgt catgtgcttc tgggccttaa cttataccat 240  
gcggacacac tgctaattgt ttgttagtct cagcagcgca tgctgctagc acgaatcccc 300  
ttacctgttg gaaatctggc ttacgtcatg gcacagaaac ca 342

<210> 13005  
<211> 442  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-029-Q1-K1-H8  
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gtaagtcttg cggattgact actcgggtgc attagtttgg cagataatct taaagaaggc 180  
tatcatgtgg gtgcaagaaa cattcacatt catatacatc agctgcggat taccgcgtac 240  
cgcgatgggt tcaggactca gggagaatgc tcattgtgac caatctccag caacgtcata 300  
tatatccgtt ctttacagtt ttctctaaaa gtttttgtcc tctatatctc ttctctcttc 360  
aacaatgttc tctatctcgt tctctataca taaatacata tgttctatat acataaatgc 420  
atatgttaga gatataatgg gg 442

<210> 13006

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-A12

<400> 13006

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gtgttgcaaa aataaggaaa tagctgttaa gacagtcaaa accatcaagt tcttgggact 180  
acatgaagag actcaaatac ctaagggttg ttogagccca tttgatgtga tttgccagcg 240  
aatggaacag aggatggcct atggccacaa tgagcaagac atgggtactgc tccaccacga 300  
agtcgaggtg gaatacccg gacgggcaacc cgccgaaatg caccaagcga cgctactgga 360  
gttcgggaag gttgaaaatg gcaggccac cactgccatg gcgctgaccg tcggca 416

<210> 13007

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-A5

<400> 13007

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gtcctatag cttcccttct tccccatc ctctcaccag cgggtgtctt aatgtgtgaa 180



aacccaattg ttcaacccta caggatccaa caggcaatcg caacaggcat cttaccatta 240  
 tcacccttgt tctccaaca accgtcagcc ctattacagc agttaccttt ggtccatttg 300  
 gtggcacaaa acatcaaggc acaacaacta caacaacttg tgctagcaaa ccttgctgca 360  
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<210> 13008  
 <211> 320  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-030-Q1-K1-B2  
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 tgagaagaaa atcgctagga aggaaggaaa gttggcccaa ggtccacgag aaataacacc 120  
 acctgtctaa tcacagctcc aactactggg gcaccgaaga aagcaaagaa gtgaagtatt 180  
 gaaataaagc tgtagctttc tagtccagta ctgcactttc ttttataagc tctagtcaaa 240  
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<210> 13009  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-030-Q1-K1-C2  
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 acggaagaag ctaaaaaaaa ccacaggggc ggtaacgcat ccagggttaag taaccagggc 120  
 tgccgcttta aaggatccaa attaagtcag ccatacttac gacgttagac ctctgttata 180  
 cgagcgcacc taaaattgaa ataa 204

<210> 13010  
 <211> 406  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-C7

<400> 13010

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gtgaagcctt ggaccagcat ccaatacttc cagttccagt atcatgatga tcgtcagtca 180  
gctcaaaggg ggtgatctgt tgtttggata gttggatcca ccagggcctg acattagaca 240  
tccatcagcc aattaatccc tttagccacc ctttactcgt gtcttgggag gcggcttggc 300  
tgtaaaggat attctgtaca gcatttagtt ggattcaaca catcatctgt tttactggtc 360  
ttcctgccgg caagggacct cattggcagc atgacatata atagat 406

<210> 13011

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-D11

<400> 13011

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cacatctgca aaaccaggg tccccggcg gcaggtgccg cggettacgc gcgatgttct 180  
gacacaacac tgccactgat tcgtcgccag cggcggtgc gtgcgcatcat cgcgccgtag 240  
cgaccagacc attctcatgc atgaataaca aggcgtgccg ttgtgatgcc aatgatact 300  
atcgtcagag ccgaacggct atcgagctca actat 335

<210> 13012

<211> 143

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-D9

<400> 13012

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ctgccgctgt tgatactgca aaa

143

<210> 13013

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-E10

<400> 13013

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aacggatgga caagtatatg tgcaggttga tgtggtgttt ccggatcgtg tgtttgtctc 120

agatgaaaaa tataacaatat tttagagcca agttaatcaa tgttccattt gcctatactg 180

agctcaattt gctaggctgc atgttccatg taattactat atctgcctat atcaattttc 240

aagctctttt agatgtgctt aataacttaac cggctcaacc tcatctacat gctaagggac 300

ctctttcctc agtacccaat cttacgcaag tgcgaatacg actgcataac t 351

<210> 13014

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-E11

<400> 13014

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cagcctcacc ccggcgcccc cgccgattca cgtaggcctt tgttggaagg aacgatggag 120

cagaccttca tcatgatcaa gcccgcggc gtccagcggg gcctgatcgg cgacatgatc 180

agtctccttc gagaagaaag ggttctacct caaggggatg aagctcatga acagtgagag 240

ggccttcgcg cagcagcact acgctgacct ttacgacaag cctttattca ctcggttgaa 300

cagatacatt atgtccggcc ccgtagtggc gatggtgtga gaggcgaatg acatcatgtt 360

gactggccgc aggatcattg gggccacca 389

<210> 13015

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-E8

<400> 13015

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gaatgttata tttggggccac cgcttcagaa gtactgggca gagaagcagc agcaagaggc 120  
agcaaaagaa ggccaagctg gttcaacctg acaaaatgtc ctcccccttct gcagttacac 180  
ggagaaatgt gtactcctcg gtcctgaact agcatcggct tttgttagca ttggttacat 240  
ttagttgccc aagtttttgg cgctggaaga agacaccgtg caatgcacag aaagatttga 300  
aaaacgttta aatgctgggt gatctcattc tgaaatacag tacctttgat ga 352

<210> 13016

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-F1

<400> 13016

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gaagagctgg attcaagatt ggatatgtcg aagctaaggg cgcacccact gaagcctgtt 180  
attcactgag gtccgagtat gtctttgggt aatatgtgga ctggatggat gggtcactgt 240  
tgaatgcagg atgtagcatc atcatggtga ggggactgag taatatggac atgtatcttg 300  
cgtattgtgc aatgaatgtg ttggctgttg ggtcgcttgc ctacgcattc tgtaagattg 360  
cagttaccat taggaactga 380

<210> 13017

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-030-Q1-K1-F11

<400> 13017

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tttacaaggt ctacgaggcat ggtncctact accaaatgtg ccctgccct gagcacgttt 120  
 tgtccccctt aaaaactagg aacagaatta gaacctattc tcttcttgcg gggtttccaag 180  
 gacggggcgac gaatatgggt aaaaccaaag aacgtatttg ctttgctgcc ttcacatcac 240  
 gatgcgaggg acggctaggc cgacggctga gatcgaaaca atggtaccta tgcagtactt 300  
 gatgacatcg tacttttgctg cctacaactg ggccttcagt gagtggattt ctttgtcaag 360  
 ctttgtggta agctcagtgg tttcctcatt ctgctcggca agctcatcac gtatgc 416

<210> 13018

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-F12

<400> 13018

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 cggttaggaa atgatgcggg tgaccgcgga agatctgtgg ctcaggcgct gcagatgcta 120  
 ggctgatgtc aatgtgccat gtctgatgtc actctgccgt agcagccact gcggtaccgg 180  
 tggttgcttc ctaggcccta tatacattca atgctcgcta taacaggagt atgctgtcgc 240  
 gacagtgtat tgatgcgaac gacgtgcgg accattgtct ggacaatgct acaaggaaac 300  
 agagtgtatt atcatacgat ctgatactgc cgcccaacac ggaacagctg agcctggcgg 360  
 tcattataga gata 374

<210> 13019

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-F2

<400> 13019

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 caaactttgt cccaatgtt gacaccttgc ttgaagcaaa catgggcatt tcccagacac 180  
 cttcaagaat ggtggtgcct gaaggcctct gtggtgccat tatgccggtc acaaatacct 240

gggacaggta gctgcataac tcaacaattc gacacggggt ggcatcatgc cttgggaact 300  
 tgctttcata aggatcgggtg gacgccaagg ctcaagcggc gacatgcttg gcccaactgt 360  
 tacagtacac gattgcgcta ctcaagttaa aaacgcca 398

<210> 13020  
 <211> 209  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-030-Q1-K1-G10  
 <400> 13020

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 aaaaaaaaaat aaaaaaaaaa aaaagaaaca aaaaaaaaaa aaaaaataag aaaaaaaaaa 120  
 taaaaaaaaa aaaaaaaaaa aatcactaa aaaatcaaaa tacaacataa aatcacataa 180  
 aaaccctgta cactatcaaa aacaatgtc 209

<210> 13021  
 <211> 430  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-030-Q1-K1-G7  
 <400> 13021

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 caacaatacc tctctccggt gacagccgcg agatttgaat acccaactat acaatcctac 180  
 aggctacaag aggccatcgc agcaagcatc ttacggtcgt tagcattgac tgtccaacaa 240  
 ccatatgcc tattgcaaca accatcctta gtgaatctat atctccaaag aatcgtagca 300  
 caacaactac aacaacaatt gttccaaca atcaacaag tagttgcagc gaaccttgat 360  
 gcttacctnc agcaacaaca atttcttcca ttcaatcaac tagctggggt gaaccctgct 420  
 gcttacttgc 430

<210> 13022  
 <211> 295

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-030-Q1-K1-G9  
  
 <400> 13022  
  
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 caactgatgt acccgtttag ttttcttggc cttagatgag cagtatcggt gtgtaattat 180  
 tgatgagtca ggtccatagc attttgaata atacagtgat tcatccagtg aactgctgat 240  
 tcaacacggt cttaaaaaaa aaaaaaatg atgcataaaa aacataggag gactt 295  
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<210> 13023  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-030-Q1-K1-H1  
  
 <400> 13023  
  
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 agagtaattc tgccaaaaca attgctgtga gcgcacatga gatacttatg cagtcgggctt 240  
 cgcgcgatg ttgacttggt aaagatatct caggtctcag ttttgactga tcagggttttg 300  
 ccattgcgcc gtggaaaaac acaggccggt gctgctttac aggggtttgt atttcagtgt 360  
 tttttcagct acttgagcat gggggccatg attctttggt catcttggat gtaactagct 420  
 gat 423

<210> 13024  
 <211> 218  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-031-Q1-K1-A2  
  
 <400> 13024  
  
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gctcgggtggc aggttgccgg gggctgtgcc tttctgtcca agatgggtcat tattgaccat 120  
ggagacttct agcagcaatt ggcaccttgc attgttaget atgccttttc tgatgctgtt 180  
gctaacaagg aaggcatccc atcccaattg gattgtac 218

<210> 13025  
<211> 453  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-031-Q1-K1-A6  
<400> 13025

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ctgtgttgct cactgaggct cctttgaagc cagaggccaa cagggagaag atgacccaaa 120  
ttatgtttga gactttcaat gttcctgcc aatccaagca gttctatcac 180  
tctatgctag tgggcgtact actggtattg ttcttgactc tggatgatgg gtgagccaca 240  
ctgtgccc at ttacgaagga tatgcccttc ctcatgccat tcttcgtttg gatcttgctg 300  
gtcgggacct cacagactcc ctcatgaaaa tcctgactga gaggggttac tccttcacaa 360  
cctctgccga gcgagaaatt gtaagggaca tcaaggagaa gctggcatat atagcccttg 420  
actatgagca agagttggaa actggcaaga aca 453

<210> 13026  
<211> 73  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-031-Q1-K1-A9  
<400> 13026

aaaaaaaaa aaaaaaaaaa aaaaaaatta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaag 60  
aaaaaaaaa aaa 73

<210> 13027  
<211> 450  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations



<223> Clone ID: LIB3059-031-Q1-K1-B11

<400> 13027

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gtatgagcta gaaactacga agtaatcaca tggctaacta tgtacaactg agcatacctt 180  
tacgggccag aaaactaagt ggaaagacta ggcattggac ttcagatagt ggattttatg 240  
ttttagagaa ataagtaaag atcttttgac ttgagtcagc aagtgtctca tgtttcacct 300  
gaaatgctct ctggctgtgc atgtcctaaa aactattaat gatttttaact tttacctttc 360  
aatttttcat ttactagttt gctgtccaca gattattttg gttcaagttg ttacttttat 420  
agattcaata actggttatcc aaatattatg 450

<210> 13028

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-B12

<400> 13028

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gacatgaaaa aatattagaa gtgccgaagt atgatcatgt cagtgtatga gctagaaact 120  
acgaagtaat cacatggcta actatgtaca cttgagcata cttttacggg ccagaaaact 180  
aagtggaaag actaggcatt ggacttcaga tagtggattt tatgttttag agaaataagt 240  
aaagatcttt tgacttgagt catcaagtgt ctcatgtttc acctgaaatg ctctctggat 300  
gtgcatgtcc taaaaactat taatgatttt aacttttacc tttcaatata tcatttacta 360  
gttcgctgta cacagattat tttagcccag gtagattctt tcatagattc aataacttgt 420  
attccaatat tatgacctga tg 442

<210> 13029

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-C10

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cacccgacat actcgatccc gacgccacca acagttacca tgtccccggc gcacctcggc 180

acgagcgaca cgatgatcgt cttgtccccg tcagcaccga tgtcgtcgag caggtcgcat 240

atgccgaacc tcgccacggc cttcacccgt cccttgccct tcccaggccg gaccgcgtgc 300

ggcgtcagcg ccacgctccc cgcgcactgc gccgccgccg gcattgccgc cccgctctgg 360

ga 362

<210> 13030

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-C7

<400> 13030

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tggaggaatt gctgaaatgg ctggcatgag ccacagaatc cgtgagagaa ctgatgctct 180

tgatgctgct ggaaatacta ctgctgccat tgggaagggt tttgcaatag gttcagcagc 240

cttggtgtct cttgccctct ttggtgcttt tgtcacccgt gctgaaatct ctactgttga 300

ag 302

<210> 13031

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-C9

<400> 13031

ccggtttcgg aattccccgc tagacgcacg cgtccgcgga cgcgtgggaa aaaaaaaaaa 60

aaataaaaaa aaaaaaaaaa aaaaaaaaaa aaaagaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240  
 ataaaaaaaa ataaaaaaaa taaaaaatat agaaaaaaaa taaaaataat aaaatttaat 300  
 gatattaaaa aaaaataatt ttttaaaaaat ttaaaaaaag agggaggggg 350

<210> 13032  
 <211> 420  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-031-Q1-K1-E10  
 <400> 13032

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 cgtcgccgtc gtcgtcgctc ttttcgttcc catcgtcaca agtcacgtac caaacgtgcc 180  
 agcgcgacgt cgacaggcac aacgtctgcg ccatggagggt gaggcacagc gtcgaacggc 240  
 tggaccaggc cgacgtctac agccctgggg ctgggaggat cacacgcctt accagccaca 300  
 agttccccgt tctcaacctc gtacagatga gcgcggtgcg ggtagacctg taccaggact 360  
 ccatcatgtc gccgatctgg aacttcaacy cccactgcgc catgtactgc atcaagggca 420

<210> 13033  
 <211> 455  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-031-Q1-K1-E11  
 <400> 13033

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 gtgctacctc tgatcaacca agtagctctg gcaaaccctt ctccctactc tcagcaacaa 180  
 caatttcttc cattcaacca actgtctaca ctgaaccctg ctgcttattt gcagcaacaa 240  
 ctattaccat ttagccagct agctactgcc tactctcagc aacaacaact tcttccattt 300  
 aaccaattgg ccgcactgaa ccccgctgct tatattgcagc agcaaatact actaccattt 360  
 agccagctag ctgcagcaaa ccgtgcttac ttcttgacac agcaacagtt gctgcctttc 420

taccagcagt ttgcgggctaa ccccgcaacc ctctt 455

<210> 13034  
<211> 266  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-E3

<400> 13034

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tgtaaaactt ccaaactggt catgcttaaa actgaggggt ttcttggtgt gaggtgtgca 180  
tgtcgttgtt gaggccattg ctgcacattc cacctattga ggccctctc aaattaagcc 240  
tcgaaaaagc tgatatcttt tcgtag 266

<210> 13035  
<211> 209  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-F3

<400> 13035

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cgcccaacga cctgcttaac atgttcctta tgcataatg caatagaata ctcacatgaa 180  
cacttctact cattagcaca tatatcact 209

<210> 13036  
<211> 199  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-F4

<400> 13036

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agcagttcag caagtgatga tggaaggaaa cacccaaaca ttacccatgg ggccaggaca 120

caaacaaagg tttttaaca ccacaacctg gctcgacaac caaacagatt catgcaagca 180  
gaacaatatt tctcctcct 199

<210> 13037  
<211> 340  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-G3

<400> 13037

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cggacgcact tgatggctgg cagcatcggc gtcgactcca tggcgggggg gttccagtgg 180  
atcatgcaga acgaaggggtg gaccggcctg ttccgcgga acgcggtcaa cgtactgcgc 240  
gttgctccaa gcaaggetat cgagcatttt acctatgaca cggccaacaa gtttctaacc 300  
cccaagggtc actagccgcc caagatgccg atccccactc 340

<210> 13038  
<211> 427  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-H10

<400> 13038

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tcatcacttt ctgatgttaa caagttggtc aaggagatcc ggtctgatgt ttctgaagta 180  
gttgcaagtg acgagtttga gtacaaggat cctgttgatg gctctgtgtc caagcaccag 240  
ggcatccgat acctctttgg agatggttca cgactgggtg tccgcctctc tggaaccggg 300  
tctgttggtg ccaccatccg tgtctacatc gagcagtacg agagggactc ctctaagacc 360  
ggcagggatt cacaggacgc ccttgcttcg ctggttgatg ttgcgctcaa gctcttcaag 420  
atgcaag 427

<210> 13039

<211> 393  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-031-Q1-K1-H2  
  
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 cgcaaccatt ttoccacaat gtcacaagc tcctatagct tcccttcttc ccccatacct 180  
 ctcaccagcg gtgtcttcag tgtgtgaaaa cccaattggt caaccctaca ggatccaaca 240  
 ggcaatcgca acaggeatct taccattatc acccttggtc ctccaacaac cgtcagccct 300  
 attacaagag ttacctttgg tccatttggg ggcacataac atcaaggcac aacaactaca 360  
 acaacttggt ctagcaaacc ttgctgcata ctc 393

<210> 13040  
 <211> 437  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-031-Q1-K1-H7  
  
 <400> 13040  
  
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 atggacacca ccgccatggc agccaagatg cttgcattga tcgctctcct agctctttgt 120  
 gcaagcgcca ctagtgcgac ccatattcca gggcacttgc caccagtcac gccattgggt 180  
 accatgaacc catgcatgca gtactgcatg atgcaacagg ggcttgccag cttgatggcg 240  
 tgtccgtccc tgatgctgca gcaactgttg gccttaccgc ttcagacgat gccagtgatg 300  
 atgccacaga tgatgacgcc taacatgatg tcaccattga tgatgccgag catgatgtca 360  
 ccaatgggtct tgccgagcat gatgtcgcaa atgatgatgc cacaatgtca ctgcgacgcc 420  
 gtctcgaga ttatgct 437

<210> 13041  
 <211> 286  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-A1

<400> 13041

cccgcctcgac ccacgcgttc gagcaagtca acttgtggag ggtgctttga ccacggcaca 60  
tgcgatcact gatgcgcgga agcactatac ctgggtccgat ctatctcgac tatacctatg 120  
tatggcacta ctagtttgaa cctcatgccc agctactgta gatctgatcc agcattcctt 180  
attctgcatt gtctcctcat tctacaagtg acttgtatga atctcacggc cctaactgag 240  
aatctttgtg agcttgatcc agatcctaag atcttgatcc taaaca 286

<210> 13042

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-A6

<400> 13042

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aacaggcaat cacagcaggc atcggacctt tatcacctt gttcctccaa caatcatcag 120  
ccctattaca tcaattacct ttggtgcatt tattggcaca aaacatcatg gcacaacatc 180  
tacaacatct cgtgctagca aacettgctg cctacgtca gcaacagcag ttacctttgg 240  
tgcaattgtt ggcacataac atcatggcac atcaactaca acaactcgtg ctagcaaacc 300  
ttgctgccta ctctcagcaa cagcagtttc tgccattcaa ccaactagct gcattgaact 360  
ctgctgctta tttgcaacat caacatctac taccattcag ccagctagct gctgcctacc 420  
accagcaatt tcttccattc aaccaactgg cag 453

<210> 13043

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-B3

<400> 13043

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cattgaaggg ataaaacgcc ctccaagggtg tggagctcta attgagagca gtacatacaa 120

gggcatgtac catgccctaa aggacattgt cccaaaggac ggatttggag gcctttataa 180  
 gggccttttc ccctcttttg tgaaatcgac ccctgctggt gctgtgacat ttgtggcata 240  
 tgaatacatc tcagactggt ctagagtcaa tactgatgtg aaaatcttca atgcagatac 300  
 tgagcaaggc tggatttgag tgacttcttg atggatcatg gaactatcaa tacaccatga 360  
 cgagaacttt ttgcacaccg tggacatgga cgatggagac cgca 404

<210> 13044  
 <211> 375  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-B8

<400> 13044

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 ataatttttt aaccgcgtcg atacgatcca ttgaagaggt gacttttcca ggattcatct 120  
 actgcttcta catagggtgca ccaagtgaac tcatactgga cattggaata ggtgacataa 180  
 aagccaattc atacttaaag tatatggaga tctggaacaa attatgactc cgaccgacat 240  
 agacgatcca agattactta cgcgtgcatt ctacgttata tttattctat aatgccacct 300  
 aaattaaatt cactgtccgt tggtcgacaa cgttctcact gttaaaaccc ttgcgtacct 360  
 tacttaatcg ccttt 375

<210> 13045  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-C12

<400> 13045

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 tcgcggcatc ttccgccgga cagctttgtc tacggccagt ccggcgccgg gaacaactgg 120  
 gccaaaggcc actacaccga gggcgccgag ctcatcgact ccgtccttga cgtcgtgcmc 180  
 aaggaggccg agaactgcga ctgcctcaa gggttccaag tatgccactc cctgggtggc 240  
 ggcactgggt ctggcatggg cacgctgctc atttccaaga tccgggagga gtaccggac 300



cgcatgatgc tcaccttctc cgtgttcccg tcgccaagg tgcgcgacac cgtcgtggag 360  
ccctacaacg ccacgctgtc cgtgcaccag ctctggaga acgccgacga gtgcat 416

<210> 13046  
<211> 419  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-D2

<400> 13046

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tgtactgaat catgtggatg tgaagcttgg cataacaagc cacaattgca aggtactctg 120  
cggatggcaa cagttttacc tctgaaacct gtccaaacat tcgaagctgg ccaagatata 180  
gtggaacaag tcataaggct tcctatggat cttattagaa gaaaatgcac atgcaagaag 240  
tcaggctgcc ttaagaagta ctgcgactgc taccaggag gggcaggatg ctccatcaac 300  
tgtaaatgct atgattgtag aaaccattt gggagaaaag tcggcggttat tttggacggt 360  
aaaagcaatc ttactgcacc tatactgcac gaaagaaacg gtactgaagt tgactcaag 419

<210> 13047  
<211> 150  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-D5

<400> 13047

tccggaattc ccgggtcgac ccacgcgttc gcggactcct cggcggacgc atctgctgac 60  
gcttctgccg tcgcttagga acccatcggt gctgggtgcc tctcttagat tgcttatgag 120  
ccatagctca atcttaaaga tttgctgctg 150

<210> 13048  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-D8

<400> 13048

aattccccggg tcgacccact cgtccgaaga tctgttatat catgtgagcg gcttgccctcc 60  
acatgatata acagatcgga ttgtgggtcca tgaacaccgt ggtcaacctg atgggtttgat 120  
tgtctcccat ctaccacatg gtccaactgc atactttggg ttgtcfaatg tgggtgacacg 180  
tcatgatatc aaggacagga agactatggg caaaatgtca gaagcttacc cccatttaat 240  
actggacaac ttctcaaccc agattggcga aaggactgca actattctga agcacctctt 300  
tcctgtccca aagccagatt caaagcgaat aattacattt gctaacagag acgattacat 360  
ctcttttcagg catcatgtat atgaaaaacc aggtggcccc aaatcgattg acctgaatga 420  
ggtcggcccc cggttcgagt tgcg 444

<210> 13049  
<211> 230  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-032-Q1-K1-E11  
<400> 13049

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aaaaaaaaa aaaagggaaa attaaaaaaaa aaaaataaaa aaaaaaaaaa aaataaaaaa 120  
aaatttttta attaaaagcg tccgttctat agtatccaag cttacttaca cttctttgct 180  
acttcatacc ttttttattg tgtcacctaa attaaattca ttgtccttct 230

<210> 13050  
<211> 433  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-032-Q1-K1-E3  
<400> 13050

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ccccgagggg gacaacatgc tccactgggt gggcaccatc gggggatccg ccgggactgc 120  
ctacgagggc acctectacc gctcgcgct ggccttcacc gccgagtacc cgtacaagcc 180  
gcccaaggtg cggttcgaca cccctgctt ccacccaac gtcgacgtgc acggcaacat 240  
ctgcctggac atcctccagg acaagtggc ctccgcctac gacgtgcgca ccactctct 300

ctccatccag agcctgctcg gagagccgaa caacgactcg ccgttcaaca cgcaggcggc 360  
 ggcgctttgg gcgaaccagg aagagttcag gaagaagggtg gagaagctct acaaggccgt 420  
 cgcgtagagg aca 433

<210> 13051  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-032-Q1-K1-E5  
 <400> 13051

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 cgtcgcacca cgcgtccggg aaaaacgtgt tgggtccaag aaaccaattg ttgtgaagta 120  
 tggccttaac catgtgactt acctcattga gcagaacaag gctcagctcg ttgtcatcgc 180  
 tcatgatgtg gatccgattg aactggttgt ttggcttcca gccctgtgca ggaagatgga 240  
 ggtcccatac tgcattgtta aaggaaaggc tcgccttgga tcgatcggtc acaagaagac 300  
 tgcacagtc ttgtgtctga ccaactgtcaa gaacgaggac aagcttgagt tcaacaagat 360  
 cttggaagct attaaggcga acttcaatga caagtttgat gaagtcagga aagaatgggg 420  
 gaggtg 426

<210> 13052  
 <211> 413  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-032-Q1-K1-E6  
 <400> 13052

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 tagtgtacca acaacggcag ctaaaatatt ctgcctcctt atgctccttg gtctttctgc 120  
 aagtgtgct acggcgacca ttttcccaca atgctcacia gctcctatag ctgcccttct 180  
 taccctgtac ctatcaccaa cgggtgtcttc agtatgtgaa aaccaattc ttcaaccgta 240  
 caggatcaa caggcaatcg cagctggcat attaccttta tcaccctcgt tactacaaca 300  
 atcatcagcc ctattacagc agctaccttt ggcgcattca ttggcacaaa acatcagggc 360

acaactacta caacaacttg tgctagcaaaa ccttgctgcc tactctcagc atc 413

<210> 13053  
<211> 280  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-F3

<400> 13053

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ctacctagca actactcagc atggatatct accaagatat tatcccttct ttctgttttt 120  
gacctgtcag cgagcgcaac atatgcattc attattcctc aacgctcatt tgctcctagt 180  
accattatac cacagttctt acgaccatta tcttcaatgg gcttctaaca cctatctctg 240  
catgcctaca agctacaaca tgcacttgct tcgagcgtgt 280

<210> 13054  
<211> 352  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-F5

<400> 13054

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acaaagaata caatgccata tgtcaaataa tcacttttct agggcaatat agaacacatg 180  
agcttcatac atatgacctc ctggctatta ttggacagtc agttgaaagc gaaagtgttt 240  
caatgctaatt gtaggatcat ttgctagct tatcaacttg ttatttaaga agacggctcg 300  
actctctgca gaaagcttgt attatcataa tgattatcga cacatatctt at 352

<210> 13055  
<211> 372  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-F6

<400> 13055

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agctgaatag ctctatctgc atgcagttgc taacacgaca atgatcactc aatggtcaca 120  
agctcctata gctacccgta ttcacgcata ccttccatca atgatagctt cagtatgtga 180  
aaaccagca tcttcagccc tataggctcc aacaggcaat ctcagcacgc aacatacctt 240  
tatcacactt gttgttgcaa caatcgccag tcctatctac ggtgcagtca ctggcacaaa 300  
ccatcatggc acagcacctg cagcaactag tgctacctgt gatcaaccaa gtaactctga 360  
caaacctttc tg 372

<210> 13056

<211> 136

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-F7

<400> 13056

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tttagtagag tgagagtgat tcatgtatta gtagacaagg ggaaatgggt aatgttgctc 120  
aagggatcga tgcggc 136

<210> 13057

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-G5

<400> 13057

cggctcgacc cacgcgttcg cggggtatta gtatttgagt tgatttgtgg aactcacgaa 60  
gctgtgtttg cttagtgtcg gagaaatacg agaagcgtg gggctttggg actatatact 120  
cacccaaatt ttcagtgtg cttgacgcgt gataagttcg gagataacac gctcatagtt 180  
taagacctgt ctgactactg gcagaacatg acatcatttg attttctgtt catagttggg 240  
aaatcttggt ttgtttcgga ctaatgcttg ttccatggat ttttaacgaa tacatttagg 300  
gtctgttctt ctaatgttaa ttcagtgtga ttggaagagg ttgaggcctt ccgtttctcc 360  
agcattagat ccagaattgt tccagctgat caaatcttat atattttaga taagcaatcc 420

ggctggtaaa tcgttt

436

<210> 13058

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-G6

<400> 13058

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catgggtgtca ccaatgatga tgcgaaacat gatgactgtt ccacaatgtt actctgggttc 120  
tatctcacac attatacaac aacaacaatt accattcatg ttcagcccca cagccatggc 180  
gatccacccc atgttcttac agcagccctt tgttggtgct gcattctaga tataagcatt 240  
tgtgttgtag ccaataatga agtcggcatg ccatcgata ctactcattg tttaggaata 300  
aaacaagcta ataatgactt ctctttcatt ataact 336

<210> 13059

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-G8

<400> 13059

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ggccgtcgac aggggaatta atggcgtggg cgtctagcag cagccaccgt cgtctcatcc 120  
tcgcagccgc cgtcctgttc tccgtgctcg cggctgccag cgccagctcc gggaccttct 180  
gcgtgccggg gtgggccatt ccgcacaacc cgctcccgag ctgccgctgg tacgtgacca 240  
gccggacctg cggcatcggt ccgcgccttc cgtggccgga gctgaagagg agatgctgcc 300  
gggagctggc ggacattccg gcgtactgcc ggtgcacggc gctgagcatt cttatggacc 360  
gcgcgatccc gtcgggcccc gacgcgcata tggaggg 397

<210> 13060

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-H4

<400> 13060

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atgctgggat tcatagagaa gattggatta aaaatggtgt ccacatcggg agtggcagaa 180  
aatataagga ttctatTTTT cttcaggcgc aagtaatgtg ctacttcaac gtataacaat 240  
atcttatatt cgagctacac acgaagactt gcacttatac aggttggtcg accgtccaaa 300  
ccatcctaga atatgattgg tggactgcga ttaaattgcy tacatgatgc atcagttcta 360  
tgcatgctcg ctgctgtctg ttcggaggtc atcaactcgg gacctggact aaggtgcctg 420  
tcgttcgctc aaccctatg aaaaagtttg 450

<210> 13061

<211> 461

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-032-Q1-K1-H8

<400> 13061

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tactacatct ccacgacctt gtgatggggg ggggctcacc ttcacgaagc tcttcagccg 120  
gctcttctcc aagaaagaga tgaggatcct tatggttggt ctcatgcag ctggtgaagac 180  
caccatctc tacaagctca agctcggaga aatcgtgacc accaatccta caatcggggt 240  
taaattggga aactgtgaat acaagaacat tagctttact gtctgggatg gtggaaggca 300  
ggacaagatc aagccattgt ggaggcacta ttncaaaac acccaaagcc ttatcttttg 360  
tggtgatagc aatgacagag atcgtgctgt tgaagcaaaa gatgagctcc acaggatgct 420  
gaacgaggat gaattgangg atgctgtctt gcttcgtttc g 461

<210> 13062

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-A6

<400> 13062

cgggttcgga attccccggt cgaccacgc gtgcgttggt tttttttttt ttgtttttct 60

ttttttttctt tttttttttt ttttttgtga ttgcacaaac aaatcccaat cccctttaat 120

tattgttccg gatgaaccat cctagaaatg ctttaatctt tttgctcgcc ttattattta 180

aacatatgaa ctagcttcaa gctcattcct catgcactat actctttgca attacttgga 240

gggcattttt 249

<210> 13063

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-A7

<400> 13063

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cgcctccga ctgctggtgg gctgtcggca cgggcgcctc caaactccat gtgctgagggc 120

ctacgccagt gtcttctacg actacgagca cgttctatca ccaaacatga tgtctgaaag 180

aagtcaacat gctgaaccat agatcgataa cctcagtaaa tgttaccatg cagtcctcat 240

aggaaggatc cacgatgatg acctggatgt ctcaaatttg gaattcggtta aaacagcttt 300

taccttgacc atgtgaaagc tggtaacttg aatggttaca cgtacctttt ctttgagact 360

agggtagcta ttatagaatc ttccttatgc tcatacttct gcgccttttc 410

<210> 13064

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-B1

<400> 13064

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acgagatctg aagcttcctc acgggtccgg ctccgacttc aagtatcggg cttacatcgt 120

cagcagcata gccaaactcg gctctgattt tgaggttgat atgtatgatg atctgctgga 180

tgtggtcact gaagatgatg atgctgattt cgatgacatg gatgatttcg atgatacagt 240



ctcagatgga ggcattgtacg atgatgactt ggatatctga aattaggaat cggttcaaac 300  
agcttttccg tggaccatgt aagtgtgtt agctggaatg gtttaccgtc ccttttcttt 360  
gagattcggg tagctatgat ggaatctccc tgatgttcat acttctgcgc ctctccattt 420  
gtaagaagct ggagtaactg aactggttct aatcgat 457

<210> 13065

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-B11

<400> 13065

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cggcaatgcc gcgtgtctgc ggcggcggtc ggcgcgcccc ccgcgcgagc ccgcgtgacg 120  
cactcgatgc cgccggagaa ggcgagggtg ttccgctcgc tggagggctg ggcggcgcgg 180  
tcgctgctgc cgctgctcaa gcccgaggag gagtgcctggc agccggcgga cttacttccg 240  
gactcctcgt ccgagatgtt ctggcacgag gtccgcgagc tgcgcgcccc tgccgtgggg 300  
cttcccgaact agtacttcgt cgagctcgtg ggcgacatgg tcaactgaaga agcgctagcc 360  
acgtaccaga ccatgatcaa cacgctcg 388

<210> 13066

<211> 463

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-033-Q1-K1-C11

<400> 13066

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gttctaagct gctgggatac tctgcagggc aaggagaaga tttggtggcc ctcaagtggat 180  
aggataccta tagtccatgg ccaagtgtgt cgatcatnca tcgtttgatg taactctcaa 240  
gggcttactt acacagaatg gttcctaacg tggcataggg acactgtgca gtggtctgtg 300

aaaaccatac tcattgtcct ctgcggtaat aaggttgatg tgaagaacag gcaggtcaaa 360  
 gccaaagcagg ttactttcca caggaagaag aatcttcagt actatgaaat tactgccaaag 420  
 agcaactacg actttgagaa acctatcctg taccttgcaa gga 463

<210> 13067

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-C2

<400> 13067

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 atgttgatac tgctgtcatg aatccttctt ttggtacacg aaggaatgga gcagacatgg 180  
 agttcctctc tatggccttg caagttgctt ctcaagctgt ctattctcta cacaagactt 240  
 ccactagaga acatatcaag aaggcaacct tgcgtggctt caatgccatc agtgcgtgatg 300  
 ttctatgcga gctgcgttac aatctaccgc ggacgtacaa attgcacacg acaaaagaga 360  
 ctgacattgc aaacgatctg tggctctttt gatctaacgc cc 402

<210> 13068

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-C5

<400> 13068

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 tgtcctcaga ctgcacacat ccaactcaac cacttcatcg accactactt cgacaaccaa 180  
 ccataagtcc ttcatgcaa aatcatcctg tatcctgaca cgcaaagat ccgcatctta 240  
 ggctttacta ccatctgcac atatgatgtg attcaggacg ctatccaggt cattaacccc 300  
 actgaactga acagtctcat catcaacgtt gacatggccc acatccgctt ttatcatct 359

<210> 13069

<211> 256  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-033-Q1-K1-C7  
  
 <400> 13069  
  
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 tgccgagcat gatgttgcac aggatggtgc cacatatgtc actgccactc cttcttgcag 120  
 atcatgctgc aacaataatt accatctatg aataacaaa ttgccatgac taatctaccc 180  
 atgctcttac aggaacatct accattagct gcatattaga tagatatatt tgtgtcgtac 240  
 caaataatag atttga 256

<210> 13070  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-033-Q1-K1-D1  
  
 <400> 13070  
  
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 tgccagcgcc tctgcaatgc agatgccctg ccctgcgcg gagctgcagg gcttgtacgg 180  
 cgctggcgcc ggcctgacga cgatgatggg cgccggcggg ctgtaccct acgcggagta 240  
 cctgaggcag ccgcagtgca acccgctggc ggcggcgccc tactacgccg ggtgtgggca 300  
 gacgagcgcc atgtaccagc cgctccggca acagtgtgc cagcagcaga tgaggatgat 360  
 ggacgtgcag tccgtcgcgc agcagctgca gatgatgatg cagcttgagc gt 412

<210> 13071  
 <211> 425  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-033-Q1-K1-D11  
  
 <400> 13071  
  
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 caatgctcac aagctcctat agcttccttt cttcccccat acctctcacc agcgggtgtct 180  
 tcagtatgtg aaaacccaat tcttcaaccc tacaggatcc aacaggcaat cgcagcaggc 240  
 atcttacctt tatcaccctt gttcctccaa caaccgtcag cctattaca gcagttacct 300  
 ttgggtgcatt tgttggcaca aaacatcaag gcacaacaac tacaacaact tgtgctagga 360  
 aaccttgctg cctactctca gcaacagcag tttcttccat tcaaccaact ggctgcattg 420  
 aactc 425

<210> 13072  
 <211> 276  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-033-Q1-K1-E2  
 <400> 13072

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 cttcacacca caccaccgtc agcatccgct cgctagccaa gtacactaag gccttttcta 120  
 cagcgtgaa ccgtgcgtc caacttctcg ccgcctgcgc cgatgcgttc aagccagctt 180  
 ctctgtatt ccatgccaac ggctcaata caatgcaatg gcatggccac taggagccat 240  
 actacatcca tgccaagcac atgcataact cgcaca 276

<210> 13073  
 <211> 378  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-033-Q1-K1-E3  
 <400> 13073

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 ggtgatgagg atacaaacgg ccacggggac gacatgtgct gcttcatcaa accctgtgtg 120  
 atcctgctgt cgtggaccga ccacgtgaag gaccatcatt acgaacggtc tgactaggca 180  
 ctgactgttc tctaccagtc cttttactca aaagggcggc agtccaagt ggtgaagatc 240  
 cacgtccccg ggctctgta catgacagag gaagaggcac aaggcgtagt ttcacggga 300

cattctgtgc cgaggccagc tggcacgaga taggccgact cgtatcgtaa cttctacatc 360  
gacaatggcg ggatcata 378

<210> 13074  
<211> 241  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-033-Q1-K1-E4  
  
<400> 13074

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gctcgtctcc ctgagagggtg cctgtaccga ggaactggcc gagtactagg tagagaatcg 120  
gtttttcttg tctcagcccg gggctctgctg cgtctgggtg tggatgaacgg gagaattttg 180  
tgagatctgt tttggatcat gcgtaccatc tcgggaatca cgggtgtcac acgtatcttc 240  
g 241

<210> 13075  
<211> 399  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-033-Q1-K1-E6  
  
<400> 13075

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tacatctca tgacgcggga tcgctgcgtc cccgaccca cttgaaggcc cgctaaaaga 120  
acttgccggc ttgccgccgg aagtgcagag ggattcgccg tcacccttgt cacggagccg 180  
agtgcacact tggcaccatc agcggcgctc cgaatgcc ctggattctc ggcggcggaa 240  
cgatgcctc caagtaactg cgaagagcat agtgcagag gaatgagctt gtagctagct 300  
catatgtctg aataataagc acagcaagaa gatgaatgca tttctcggat cgttcatccg 360  
gaacaataat taaaggggat ccggatttgt tcttgtgat 399

<210> 13076  
<211> 177  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-E7

<400> 13076

acagcagtta ccattcatgt tcaacccaat ggccatgacg attccacca tgtgcttgac 60  
agcaaccctt tgttggtgct gcattctaga tagaaatatt tgtggtgtac cgaataatga 120  
gttgacatgc catcgcggtgt gactcattat taacaataaa acaagtttcc tcttatt 177

<210> 13077

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-F6

<400> 13077

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ccactcgtat gagccttcgc cgcataggga tggactatct catcaatcgc cacatcacat 120  
ctatctctcg atcttaccba tagtggatgt acaacaacta caacacaccc ctaagctgtt 180  
catacgttgt acattcgatc atctacatgt gaacgacata tccctgaacg actaccttgc 240  
tgctaactcg acgaatcacg caatgtacct gccacacacc ccagaacatt actccaagaa 300  
tcgactcccc attgctcagt gcacgatcgt gcagcgctt aaaaactccc tcatgattca 360  
cggactcaac aaccgcaaga aggtcatatc tgtccgcac c atcaagcata ccctgtagat 420  
catttaaa 428

<210> 13078

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-G12

<400> 13078

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cgaccctgtc gagctccagc tccgcgacgc ctggctcaac cgcttgggtg tgcaggcgcg 120  
cggcatggag cgcgcgtcgt gctacgtgct ttccacctgc cgcgtgcgct cctcggccgg 180  
gttctgcacg cacttctgcc tcgcgcgggc gcagtgttc ggcgaccctg tcgagctcca 240

gctccgcaac gcctggetca accgectggc cgcccgacgg tagccgcccg tcggcagctg 300  
 ctgctactga tactactaat aggattcgat gctccaagga ccaaattgcaa tgatgcctgc 360  
 tcttcgctgg caagaacgag gaagagaagc ttgcagattg gatttgaagc atgggaggcc 420  
 aacatatctt t 431

<210> 13079

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-G3

<400> 13079

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 ctctgggaca ttttaagccgc atggatttgc aagaaacatg atatgggtccc tggatgatga 120  
 gcagccacca ctgaatcata atgataacgg aagcaaagtt tctgttgacc ttattctaaa 180  
 accatctgaa gatgacctca agtgctggcc acattgtttt gagttccgtc tgaaggccct 240  
 tttttcaaaa gatggggact tgtcattgat atcacgcac aagaatgtca atggcaaacc 300  
 attcaatttc tcatttgta atacacatat ctttc 335

<210> 13080

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-H11

<400> 13080

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 gtgtaccaac aatggcagcc aaaatggttt gcttccttat gtccttggt ctttctgcaa 120  
 gtgctgtac cgcaaccatt ttcccacaat gtcacaagc tcctatagct tcctttcttc 180  
 ccccatacct ctaccagcg gtgtcttcag tatgtgaaaa cccaattctt caaccctaca 240  
 ggatccaaca ggcaatcgca gcaggcatct tacctttatc acccttggtc cttcaacaac 300  
 cgtcagccct attacagcag ttacctttgg tgcatttggt ggcacaaaac atcaaagcac 360  
 aacaactaca acaacttggt ctaggaaacc ttgctgccta ctctcagcac agcagtttct 420

<210> 13081  
<211> 82  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-H12

<400> 13081

ccggttcgga attccaggct acgactcacg cgcacattgc accaagaaat ccatcgtgag 60  
gccttctaca ggggaattaa tg 82

<210> 13082  
<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-H3

<400> 13082

acggtccgga ttcccgggtc gactcacgcg tccgggacaa gttcggggcat gtttcttcaa 60  
agaggaaggg acaaggttat tcgagtaatt gagaagagga ttgcagatta taccttcata 120  
cctgtagatc atggagaggg actccaagta ctgcattatg aagtcgggca gaagtatgag 180  
cctcactttg attattttct tgatgagttt aacaccaaga atggtgggtca gaggatggct 240  
actcttctga tgtatctatc agatgttgaa gaaaggggag agactatttt ccctgatgca 300  
aatgtgaacg tcagttcttt accatggtac aatgagcttt cagagtgtgc caagagaggc 360  
ctttctgtca aaccaaagat gggagatgca cttcttttct ggagcatgaa accagatgcc 420  
accct 425

<210> 13083  
<211> 100  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-A10

<400> 13083

tttaagttaa gtttcatttt tagttttttt ttttaatcta tttttttttt ttttatttta 60  
taattctcaa catctactat accatttttt cccttttttt 100



<210> 13084  
 <211> 430  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-034-Q1-K1-A11  
  
 <400> 13084  
  
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 cttcaggccg gatcacccgtc gccgcgcgcc ggcggttcctg cgggacctct cgtccccgat 120  
 ctctctgtcg tttcgcctcc caccggcctc gatgcggcga gaggcgcagg cctccacccc 180  
 gccgcgcgct ccgccgctgc tctccctcga cgacctctcc cacctctccc cctccaggca 240  
 gccggccacg cctccgcagg cgaacgacgac cccctcgctc cagcccccg gcggagccgt 300  
 tctctttctc tcgccgctgc ggtccaacgg ctgcgccggg ccctcggcac ggtggacccc 360  
 ctcgagggag gagaatccca gggagggatc accgatggat ggcgtcgtgc agtaccagca 420  
 gcagtccccg 430

<210> 13085  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-034-Q1-K1-A4  
  
 <400> 13085  
  
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 gactgtccag tctgcgatgg gggatgagca gatctgcgcg ttgaaggatg ttggccccaa 180  
 gtaacttctt tggctttgga gacggaaccc tactgtatct caacttaaata cggaaaagaa 240  
 gtgtatcacc aaaggattgc taccgagaca ttcacctggc ttgagctggc ttttgctata 300  
 gcgtgcaagg ggttgctggg tgctgtacct acctgactta tcattatctg tggttacatt 360  
 ctggaccctg tattttctat gctttcatgt ctctctactt tctagtatta attatcaata 420  
 agttgggttg gaatgg 436

<210> 13086

<211> 542  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 13086  
  
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 gggcnngca ctgannnacc cggnnctgct taaatttgca gcnanngcaa atacctttac 180  
 taccannttt agccagctta nngctacagc aannngccgt gccttnncct tctnntgaca 240  
 cnaacaaca ngnnttgctg cncggttcta aaccagcagt nnttgccggt ttaaccccn 300  
 ngcaaccctt tcttaccxaa ctaccaaca attnnngttg cccttttggt cnccaacttg 360  
 gcnnnttgac anannacca gnnagcctc cttaccaac caaccacat cattgnngtg 420  
 gtgcccttct tttagaattg gcttaattag atgtnaattc aatanannta aagttttttg 480  
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 aa 542

<210> 13087  
 <211> 134  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-034-Q1-K1-B6  
  
 <400> 13087  
  
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 taactgtccg ctga 134

<210> 13088  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-034-Q1-K1-B7  
  
 <400> 13088

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 cctggaggag ggtcttgctg aggcaattga tgatggccgc attggccac gtgatgatcc 180  
 taaggtgctc tcccagatcc tctctcaaga gtttgggtgg gacaaggatc ttgccaagaa 240  
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 agtgcactat ctcaatgaaa tcaaggattc tgttggtggt ggtttccagt gggcatcgaa 360  
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 tcttcatgct gat 433

<210> 13089  
 <211> 86  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-034-Q1-K1-B9  
 <400> 13089

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<210> 13090  
 <211> 372  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-034-Q1-K1-C1  
 <400> 13090

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 aatgcatcag gcttgtgttc ctgtgttga taatgcttag agaagtttag cagtgataat 180  
 gcttcactat tcgaaaatca gtaaaaagtt tagaccattt atgtgacatt tttggatagt 240  
 tcctatgttg tgttgcaacc attaactata ttaactgtat attttcacat ggtgggacag 300  
 atagaggact tcatagtgtt cattcgaaaa aaaaaaaaaat aaatatgaac aattaatata 360  
 aaaaatatgg at 372

<210> 13091  
<211> 163  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-C3

<400> 13091

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gtcttctctc tctctagatt ctgacgagtg gtgggtctgca ctcgtcgtaa tgctggtttgc 120  
ctaaactgat tttgatggaa caggaaatct tgctgggtctt gcc 163

<210> 13092  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-C9

<400> 13092

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tcacctgcaa gaaaatatgg gtagggttgg gagagaaccg ggtcgtgtgt cgctgaacc 120  
agctaaagga aacgattcct tggatctgtg gattaccagc aacttcaagg aatctaagag 180  
caatgatggt gcgagaacta atgcctgatg tgatggatgg caggattttg ccagttttga 240  
tcaagctcac agaattacta aagctcatgt ggaaggacat gttctaaaag atccttcagg 300  
cgctgaaact ttggacttat gggcctcaac tcatgttaat gaaaagaacc ttgaacagat 360  
acgtgaacat aatgatctat tcgatgactg gcac 394

<210> 13093  
<211> 421  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-034-Q1-K1-D11

<400> 13093

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 tgttgttcct aaggatgtca acgctgcagt tgcaaccatc aagaccaaga gaactgtcca 180  
 gtttgtggac tgggtcccca ctggattcaa gtgtggcatc aactatcagc caccctctgt 240  
 tgtccctgga ggtgacctgg caaagggtcca gcgtgccgtg tgcattgatca gcaacaacac 300  
 cgccgttgcc gaggtgttct cagcatcgca ccacaagttt gaccttatgt acgccaagcg 360  
 tgcattcgtt cactgggtatg tcggtgaggg tatggaagag ggtgagttct cagaagcccc 420  
 t 421

<210> 13094  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-034-Q1-K1-E1  
 <400> 13094

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 ttccgcaaaa aaatttcgtc aacagtggaa ggtataccca tggcaaaact actcttgggt 120  
 ttgctccttg cccttgctat tctagggaca acatcggtcg ctggttgtgt acaagacgcg 180  
 gaagacatga aacgagagtg caagcagttt gagctattcc cagcgaacct aaagttgcca 240  
 ccgtcggcag catgttgtgc tgtgtggaag atggcagatg ttccatgcct atgcaaatat 300  
 gttaacaagg aagtagagaa ggtatggtcc atggagaaaag ttgtgtacgt atccaactat 360  
 tggaagagggc cgtttcaacc ttgctacaag ttctgtaatt attcaatttc ttttatta 418

<210> 13095  
 <211> 401  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-034-Q1-K1-E10  
 <400> 13095

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 ttaacggggg cccaaacctg caaaggccat ttccatccaa atcgccgaga aggggaagcc 120  
 aaatcgatgg cggcggcggc ggccggcggc gagaacagcg gcgcgggcgc ggtcgcgggc 180

gagggcgagt tctacctgcg gtactacgtg gggcacaagg gcaagttcgg gcacgagttc 240  
ctcagagttcg agttccgccc cgacgggcaag ctccgctacg ccaacaactc caactacaag 300  
aacgacacca tgatccgcaa ggaggtcttc gtcttcccct tcgtccttcg cgaggccagg 360  
aggatcatnc aggagtccga tatcatgaag gaggacgaca g 401

<210> 13096  
<211> 401  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-E2

<400> 13096

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tgcgccggtc caactgcgcc aacgtatgca agaccgaggg gttccccggc ggcaggtgcc 180  
gcggcttccg ccgacgtgc ttctgcacca cgcactgaca ctgattcgct cgcccagcgg 240  
ccggctggcg tcgacgtcga tcgcgcgcgt cgcgaccagt ccatggctgc atgcatgaat 300  
aacaaggggtg tgcagttcgt gatgccaaat tgtatgctct cgtcacgtgt tgaagcgttc 360  
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<210> 13097  
<211> 442  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-034-Q1-K1-E6

<400> 13097

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aattacttct ccagtgttgg aagtatttcc cacttgggaa atgagaaggt gttccattga 120  
ngaattgaga tnttggcca aaagatctgg caaacaaca aggtgcgtgt tgtccgcccgg 180  
gacaactggt gcaaaagggt gacattccct gtgaccaatt tgggtgaaga ggtaaagtg 240  
ttactggatg agattcaaaa aaatctgttc aaaacagccc aagaaaagag agatgcctgt 300

gttcatgtcg tgaacacttg ggatgaattc acaactgctc tgaataacaa aaagttgatc 360  
 ttggctccat ggtgtgatga agaggaaatt gagaaagatg taaaaactcg gacaaaaggg 420  
 gaaacttgga gctgcgaaaa ca 442

<210> 13098  
 <211> 68  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-034-Q1-K1-G11  
 <400> 13098

cccacgcgtc cgagcatgtg cacttttata tatttatttg gtaccatctt gctaaaggaa 60  
 aggaaaaa 68

<210> 13099  
 <211> 402  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-034-Q1-K1-G7  
 <400> 13099

aatctcatca attttcttgt aaaaattcct atggattgct ttcctccgta caagttagag 60  
 aaaaataaca aaaggattgc aattcacagc cacctotaat tcgagtacgg aagaagccac 120  
 ctgcagctgc agagatcctg aagctcaact gcgatgcttc acaatcggcg tgattgggttc 180  
 ctacacccat aagagccggg ctgcgcgcca cctgcacccc agtcaatgct tccactaagc 240  
 ctgcgcacag ctagccaagc tatcaatcat gcgatatatg cgttcattac aacataaacac 300  
 tgttcattac aacataaacac tctgaacata tgcaagccat cagttttcac cgttttacca 360  
 tcctaattgtg ggtctttatt gacccgagtg tactggacta ag 402

<210> 13100  
 <211> 371  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-034-Q1-K1-H11  
 <400> 13100

cacgcgtacg atgacataca aatccctggg atgataaatt cttcgactag cagcgcagag 60  
 ttcttgcgca cggtgacagt gaattattgg agctgcta atctgtgaagg gcattatctg 120  
 aactgacatg gccagcaact ctgaataaga gagacatatt cagggaagta ctcatggata 180  
 ttgaccatt atcactctca aaattaagtg acaataagat tatagtacct ggaagccata 240  
 tcataccatt gatatccgta cataatctga gccgtgttat tgatatcgca caccactac 300  
 tgatgatcat atacgaatac gcatcgctg acacatactg ccgtatccta ctgaatcaca 360  
 tgcttatatt g 371

<210> 13101

<211> 471

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-034-Q1-K1-H2

<400> 13101

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 acctcgcttc cgctcccggc tccctccgg gcaggcacac atcgctccgtt cgctcgccaa 120  
 gagacaggac cggagaccat ggcgaccag ctcaccgacg accagatcgc cgagttcaag 180  
 gaggccttca gcctcttcga caaggacggc gacgggttgca tcacaaccaa ggagctcgga 240  
 actgtcatgc gatcactggg tcagaacca accgaggctg agctccagga catgatcaac 300  
 gaggtcgatg cggacggcaa cggcaccatc gacttcccg agttcctcaa cctcatggcc 360  
 cgcaagatga aggacaccga ctccgaggaa gagctcaagg aggcgttcag ggtgttcgac 420  
 agggaccaga acggcttcat ctctgcggcg gagctncgnc acgtgatgac c 471

<210> 13102

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-H9

<400> 13102

tagaaagcac aatagtgtac caacaatggc agccaaaata ttttgctcc ttatgctgct 60  
 tggctcttct gcaagtgtg ctacggcgac cattttcccg caatgctcgc aagctcctat 120



agcttccctt cttccccgt acctctcacc agcgggtgtct tcggtatgtg aaaacccaat 180  
tcttcaaccc tacaggatcc aacagggaat cacagctggc atcttacctt tatcacccctt 240  
gttcttccaa caatcatcag ccttattaca tcagttacct ttgggtgcatt tattggcaca 300  
aaacatcagg gcacaacaac tacaacaact tgtgctagca aaccttgctg cctactctca 360  
gcaacagcag tttcttccat tcaaccaact agctgcattg aactctgctt cttat 415

<210> 13103

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-035-Q1-K1-A10

<400> 13103

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tatcaacaat agagcaacaa tggcggccaa gatgttttcc atccttatgc tccttgctct 120  
ttctgcatgt gttgctaacg cgaccatttt tctcaatac tcacaagctc ctatagctgc 180  
ccttcttccc ccataccttc catcaatgac cgcttcagta tgtgaaaacc cagcccttca 240  
accctacagg ctccaacaag caatcgcaac aagcaactta cctttatcac ccctgttctt 300  
tcaacaatcg ccagccctat ctttgggtgca gtcattggta caaacatca gggcacaaca 360  
gctgcagcaa ctctgtgtac cagtgatcag ccaagtagct ctggcaaacc tttctcccta 420  
ctctcagcaa caacaatntc ttccattcaa c 451

<210> 13104

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-A5

<400> 13104

acccacgcgt ccggaccaag gagatgaaaa gatagaatca cgaggcctgc gcagagtcct 60  
gagccgctgc gaccgtacgt gactgtacta cggctcttga tcggacggag ctggcatgca 120  
ctgggtgcct atactactct ggacogctaa cgtcccacgg ttacaatcga tttttcgttt 180

ggatacgtgg atgcatccgt cagagtctct aactacttag acgtatgaac ctactgacga 240  
 ggctactgag cacactcatt accgcaggca tttcaggtag gcatgtacta catactgcat 300  
 gtacttagac acatatgaca gtcactatct tgagagcgag ggctatactg tgctgacata 360

<210> 13105

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-B10

<400> 13105

tgaaagcttc agcttcgggt tgcaaggatg agtgggtggt ctgtcgtgtg ttcaacggga 60  
 ccaccgggat caagaagacg gctgcgccgg cataccagggt ggccatggcc ggtgctgaga 120  
 tggatcagaa tcagaacaac attccggcca tccccatccc catgccgctg cagctgccac 180  
 tgcccggtgcc catgcagatg caatttccca tcctgccaga ttttgtcatg gacccggtgg 240  
 cccctacta ccccaacca aatgccggcg ccgggatgat gccgcctatg gcggccggta 300  
 ttggcggcgc cggcgggctc cagatcaacg gcgccctgtt cggcaatccg atgcccgcg 360  
 cgttgccgat gaacttctac caccaccaga tgggcatggg ggcagcagct 410

<210> 13106

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-035-Q1-K1-B6

<400> 13106

aagcacaata gtgtaccaac aatggtagcc aaaatatattt gcctccttat gtccttgggt 60  
 ctttctgcaa gtgctgctac gacgaccatt ttcccgcaat gtcacaagc tcctatagct 120  
 tctcttcttc ccccatacct ctcaccagcg ttgtcttcag tatgtgaaaa cccaattctt 180  
 caaccctaca ggatccaaca ggcaatcaca gcaggcatct tacctttatc acccttggtc 240  
 ctccaacaat catcagccct attacatcaa ttacctttgg tgcatttatt ggcacaaaac 300  
 atcagggcac aacaactaca acaactcgtg ctagcaaacc ttgctgccta cgctcagcaa 360  
 cagcagttac ctttggtgca attgttggca canaacatca gggcacaaca actacaacaa 420

ctcgtgctag caaaccttgc tgcctac

447

<210> 13107

<211> 74

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-C8

<400> 13107

taccggtctc ggaattaccc ggggtgcgact ccactgccgt ctcgcccacg cctgtccgcc 60

tcacgcctgt ccgc 74

<210> 13108

<211> 490

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-D8

<400> 13108

accggttcgg aattcccggc tggacccacg cgtccggatt gaggatcggg ttgaggagga 60

atgttacagt gaggcttcag aaggagatga tgaggcagat gatgcttata ggcagtagga 120

ggccatggga atgcagtgtt gttagtggct cttctgcttg tagttccatt tgtccctggt 180

caagtgttgc ctggagaact ggcagagaaa tttggttgac atcgaacaat ctgacttcgt 240

gcggctcctg accctgggtg gaagtgttcg cttcagctaa aacagctcca gctgcggcct 300

ctctctgcag atcattgtag catcagcagc gctgccaaagg gattagttgt tgcacccat 360

gatgcaacca taatatgttc atgcagcaac tcagttcagt tgtactgttt gactcgagaa 420

atgtaacacg ctgtactgtt aaaccagggtg atcctattgg tgtctcggcg tcccaagttc 480

tgtgacactg 490

<210> 13109

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-E10

<400> 13109

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 tgtgcccttg atcacattta tttttctaataat aatgttcttt ataattattt attcatgcat 120  
 aggcttaatt ttgatgggtc ccaatagggtc ccaatagggt agttttgcta ttgcattatg 180  
 tggttttggg attaatatta cattatatcc atgttccaat tattatgtta tgttatttat 240  
 gttcatgtca agatcattat ctttaattgg aacgtggagc ttaacttggg aaacatgtgc 300  
 caccacaagg gtggaatggg acgcccttgg ctaactaatt aggaaagcta gtggaagact 360  
 accttaccgc aaaggggcaa gggcagtagg ggagttgcac gcaagga 407

<210> 13110  
 <211> 498  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-035-Q1-K1-E7  
 <400> 13110

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 gggatttcag tgtgcactag caggtaggaa ccttgacatg aggttcactt gtagtactgg 120  
 agatgccatg ggaatgaata tgggtgtcaaa aggtgttgag gatgtcttgg gctacttgca 180  
 gaatgatttc cccgacatgg atctcatcag cctatctggt aactattgtt cagacaagaa 240  
 ggctgcagct gtaaactgga tagaaggctc cgaggaaatct gttgtttgtg aggccacagt 300  
 caaaggggga gttgtgcaga gtgttcttaa gacttctgtg caaaaactta tcgagcttaa 360  
 tattgtaaag aatctcgtg ggtcagctgt agccggagct cttggagggt tcaatgcca 420  
 tgcaagcaat atcgtaactg ccctgttcat tgctacggng caggatcctg cccaaaatgt 480  
 tgaaagctcg cagtgcac 498

<210> 13111  
 <211> 451  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-035-Q1-K1-F7  
 <400> 13111

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cagggcggctg caccatcggc ggggtagcat ctgtgctaca agggctattg caatggcctc 120  
ttcacagttc gtcggcggca acgcgttccg tctctcggtc gcgcccattg acctcttact 180  
gaaactgcac aagggcgaca tcacctctg gtccgtccac tgcgccaccg acaccatcgc 240  
taatgctgct aatgagccaa tgttaggtgg cctatgtgtt gatcgaacta tacatcacgc 300  
tgctggacca tagctagtgc aagcatgcct gaaagttcca aatgtcaaac caggagtccg 360  
tttgctact ggagaagctc ggattacttc tgctacagag cttgctgcct ctgactgat 420  
tcacactgtt ggacctatat atgatttga c 451

<210> 13112  
<211> 123  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-F9

<400> 13112

accacacata cgaaaacaca taaaaatttt aaaacgcaag caaaacaata tagagaaggc 60  
gagcttacaa acgacaggca tgcaacacaa tacactataa tataacgaaa cctaaattca 120  
ttt 123

<210> 13113  
<211> 479  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-G3

<400> 13113

cccggactta ctggctggac ccacgcgtgc gtacgatcag tacaatccct tcagatttgg 60  
ccaaaaatgt gaagatcttg caccctgatg tggggaataa ctttattgag aggagtccag 120  
atttgaaggt actttctgaa ttgcgtact tgaggaacct taatttgcag ggaaatccctg 180  
ttttcaagaa agacagtctt gtcaaaaagg ttaagaaatc tgtgccacc ttgcgcatac 240  
tgaacgcaaa gcccttagag gccacctcca agagtgatac gaggtctaca aaagagaatc 300  
ctcctagcaa agatgaagac ccattggga ttgatgcaaa gaaagataaa aggaagggat 360

ctaaacaaga ggtaaagggc cttgaagagc ttgaagtcca gagtgtttct acaggatatca 420  
ccacttcgaa ccctggtaaa cttgaagtgc cagacggtaa ggaaaagaaa aagggtcaag 479

<210> 13114

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-035-Q1-K1-G8

<400> 13114

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gttacaacaa ccaatttccc agttgcaaca gcaagccttg gcacatctaa caatacaaac 120  
catcgcaacg caacagcaac aacaattcct accagcactg agccacctag ccatggtgaa 180  
ccctgccgcc tacttgcaac agcagttgct tgcacaaac ccacttgctc tggcaaacgt 240  
agttgcaaac cagccacaac aacagctgca acagtttctg ccagcgtca gtcaactagc 300  
catggtgaa cctgccgnet acctacaaca gcaacaactg ctttcatcta gcccgctcgc 360  
tgtggccaat gcacctacat acctgcaaca acaattgttg caacagattg taccagctct 420  
gactcagcta gttgtgc 437

<210> 13115

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-035-Q1-K1-H2

<400> 13115

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ttgcaagttc aatctcacct ccaaccatgg gtgagagaga agtcccacat caacattgtg 120  
gttattggcc atgtcgactc tggcaagtgc accaccacag gacaccttat ctacaagctt 180  
ggaggcattg acaagcgtgt gatcgagagg tttgagaagg aagctgctga aatgaataag 240  
cggtccttca agtacgcgtg ggtgctcgac aagctcaagg ctgagcgtga gagaggatc 300  
accattgata ttgctctgtg gaagtttgag accaccaagt actactgcac ggtcattgat 360

gcccctggac accgtgactt catcaagaac atgatcactg gtacctncca ggctgactgt 420  
gctgtcctta tcattgac 438

<210> 13116  
<211> 426  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-A10

<400> 13116

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ttttttttgc catgtaggga cccatattct aaaggagtta cattaagatc cctcaaaatt 180  
tctgatttgc cgggtactgt taacattgtt tacatgttat gggttttctt cttgcatgct 240  
aactctcagt aacacctctg tgatgtactt gcagtcattt ttttggttgg catttttggg 300  
gctcattgat gattaaaata tggcatgcc a ttctccactg tttctgcttt atagccatgt 360  
ttttaggagg gcagacctag tgccggagag gctcccacat gaagtgggtc tggagaaggg 420  
ataaac 426

<210> 13117  
<211> 419  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-036-Q1-K1-A6

<400> 13117

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gagacggatc ttgcatatct gcagaagaag aaagatgagg aaaaagcact gaaggagctt 120  
aaggccaagg cacagaaggg cgcgattggg ggctcgggtc tgaagaaaag tggaaagaaa 180  
tgagactggg caccctctc caatacctag aggatgataa ggcagctgtc tatctgtgtt 240  
gcgcttcact aagtgtgatt gtaacagtgg tacctcttgt gttctgtgtt ccgcgatgtt 300  
gcagttgggt gcttgatcga aagatgtttc aacctcccat ctgctagcta tgatacagat 360  
ggtcccctga taataatgat gacatattct gtgatggatg ccacagcatt ntttgtttt 419

<210> 13118  
 <211> 446  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-036-Q1-K1-A7  
  
 <400> 13118  
  
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 gctcctatag cttcctttct tccccatac ctctcaccag cgggtgtcttc agtatgtgaa 180  
 aaccaattc ttcaacccta caggatccaa caggcaatcg cagcaggcat cttaccttta 240  
 tcacccttgt tctccaaca accgtcagcc ctattacagc agttaccttt ggtgcatttg 300  
 ttggcacaaa acatcaaggc acaacaacta caacaacttg tgctaggaaa ccttgctgcc 360  
 tactctcagc aacagcagtt tcttccattc aaccaactgg ctgcattgaa ctctgctgct 420  
 tatttgcaac aacaactacc attcag 446

<210> 13119  
 <211> 250  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-036-Q1-K1-B2  
  
 <400> 13119  
  
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 gaggaactct tggtagtttg agctgtgcga aagcttttaa gtttacattt actcaccact 120  
 ccatgaacgg caacgaagta ttcacagtt agaaaagtgc acctataatt ttggttgctt 180  
 ataactttct atttgtcaga gatttaactc gaaggacctg taactaggaa agttaatttt 240  
 gcttggaana 250

<210> 13120  
 <211> 440  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-036-Q1-K1-B8



<400> 13120

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tttccctcct tatgctcctt gctctttcta catgtgttgc taacgcgaca attttccctc 120  
aatgctcaca agctcctata gcttcccttt ttcccccata ccttccatca attatagctt 180  
cagtatgtga aaaccagct cttcaaccat ataggcttca acaagcaatc gcagcaagca 240  
acataccttt atcgcccttg ttgtgtcaac aatcgccagc cctatctttg gtgcagtcac 300  
tgggtacaaac catcagggca caacagctgc agcaactcgt gctacctgtg atcaaccaag 360  
tagctctggc aaacctttct cctactctc cgcaacaaca atttcttcca ttcaaccaac 420  
tgtctacact gaacctgct 440

<210> 13121

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-C10

<400> 13121

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cttatgctcc ttgctctttc tgcattgtgt gctaacgcga ccattttccc tcaatgctca 120  
caagctccta tgtgaaaacc cagctcttga acctacaggc tccaacaagc aatcgcgga 180  
aacaacttac cattatcacc cttgttcttt caacaatcga catccctatc tttggtgcag 240  
tcattggtac aaaccatcaa ggtacaacag ctacaaaatc tcgtgctacc tgtgatcagc 300  
caagtagctc tagcaaacct ttctccctac tctcagcaac aacagtttct tccattcaac 360  
caattgtcta cactgaacct tgctgcttat ttgcagcaac aacaactact accattcaac 420  
tagctagct 429

<210> 13122

<211> 475

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-C5

<400> 13122

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tagaaagcac aatagtgtac caaccgtggc agctaataata ttcagcttcc ttatgcttct 120  
agatcactct gctatagctg ctaccgtaac cattatccca cactgctcac aagctactat 180  
agcttacttt cttcccccat acctatcacc aaccgcttct tcataattac gaaaacccaa 240  
tcctttaacc ttacacgata caacatgcaa tcaatacaac gtatttcacc tttatcaaac 300  
ttgttctctc aacaatacca agtcttacta cagtagctac ctcaaaccga tttgcctact 360  
cacaacatct ggttacatta aatccactaa ctatggctaa ctatgctgcg tacctactac 420  
aacgaccaca ggtacttaat acattggcaa ttgcttacc ataactctgc tgctt 475

<210> 13123  
<211> 445  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-036-Q1-K1-C7  
<400> 13123

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ggataacttt gttcaggaag caccaaattt ttttaagtaa tgtttgttca gtacctcaaa 120  
tcattccccg ccatgatcca agaacttat tctctcttgg gggagaattc aaaggacaca 180  
ggagaccgga aatgttctct atatggactc tctggtgaat ccagacacag agtgtcatat 240  
acactatcat gctctaggaa aagctcttgc cctctcaag agacgcgaga tatgacactc 300  
tagagagagg gacacctctc tgaacctgga acagttccag gacaaggcaa agaaggaaag 360  
gctgcggatt tggcagtacg gagatgttga atcggacgag gacgagcagg cccgcctgc 420  
aaggaagcct ggaggtcgtc ggtag 445

<210> 13124  
<211> 350  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-036-Q1-K1-E5  
<400> 13124

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 aatgtatggg gctcaatctg cctaagatca tgacaacatt gttgctgcaa tacctggcag 120  
 ctacttggtt gtatcaaacg tgattggaga aaaggcatta ccaaagggct gcactgctgc 180  
 cttaggaatt catgacaatt tttttagatt tgagctactg ctatagtact tatagctgca 240  
 ccttgtaact tgctgctgct cctggcaatg acattgatgc tgttgtgatt tttcctggcc 300  
 ctgctgatat tgctgangct gntgtggatg ctgctgcttg tcatgaccct 350

<210> 13125  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-F6

<400> 13125

ggaattcccg cggggagcca cgcgtccgcg ggcattgcttc atcacattgt tgacttcata 60  
 acgaaacaca tcgtcttcgg atcttgcatt attagttccg tcgtgcgggg atgctgctgc 120  
 taccagcagc atccagaaga agacgtcgtg gccggagggt gtccgcattgt gcataatgga 180  
 tgcgacggat actattctca aggacatgcg caacgcgtac atccattctgc tatcctgctg 240  
 gataccccgt gacgctgaac ctteggcctt accgcgttcg tatcttcgta gacacagatg 300  
 acctgactcc tacagttgaa cgatacatc catgggcaat ctacataccc tactttccat 360  
 tgcattgttc cacttaatac taaacaacgc cttaacttct tacttgtgct tacttggaag 420  
 gcgtt 425

<210> 13126  
 <211> 406  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-F9

<400> 13126

tccgcgcttc ctccggactg tgggtccgtt cgctcactcc tgtgcccccg ccgattccgg 60  
 tcattccttg ttggaaggaa cgatggagca gaccttcatt atgatcaagc ccgactgcgt 120  
 gcacgggggc ctgatcggcg acatcatcag tcgcttcacg aagaaagggt tctacctcaa 180

gggatgaag ttcatgaacg tggacaggtc cttcgcgag cagcactacg ctgacctttt 240  
cgacaagcct ttcttctctg ggttggtgga gtacatcatt tacggccccg tcgttgcgat 300  
ggtgtgggag gggaaggacg tcgtgttgac tggccgcatg atcattgggg ccaccaggcc 360  
ttgggaggca gaccccggtg ccattcgtgg ggactacgcc gtggaa 406

<210> 13127

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-036-Q1-K1-G12

<400> 13127

accgtccgga attnccggtg gacacgcgtc cgagcgtgga ttcgagcgcc aagggccgct 60  
tttccccagc ctcgggggaa agccgtagt gaccgttacc atgtgctcgt cgggacaggc 120  
tccactcagc tctttcaggc cgtgctgtac gcgctctcac ctgcaagtga cggcacaccc 180  
atgaacgtcg tctcaccggc accgtactac tcgtcttacc catctgtgac caactatcta 240  
aactctgcgc tctaccgttg ggctgggtgat gccaatatcat ttgatggcga cacatgtatt 300  
gagctcgtct gtcccccaaa caaccctgat ggcggcctcc ggaagcctgt catcaaatcc 360  
aagtctagca cgctgtata tgacttcgcc tactactggc cgagtagcac acccatcacc 420  
gaggcagctg cccatgacat catgct 446

<210> 13128

<211> 467

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-036-Q1-K1-H4

<400> 13128

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cgcgtgctc cgcgcggcgc acccgagtg gggcccgga gccatccggt cggcgcttat 120  
gacgacggcg tacaacgagt accccggcgg cggcaacggc atcctggacg tggccacggg 180  
gcggccggcc acgcccgtgg acgtgggcgc cggccacgtc gaccccgga aggccgtcga 240

cccggggctg gtgtacgaca tcgcgggcggc ggactacgtg gacttcctct gcgccaacaa 300  
 ctacgaggcg gcgcagatcg cggcgctcac caggcagcac gcgtccgaag ggtgcagcgc 360  
 caaccgcacc tacgcggtga ccgcgctcaa ctaccctcc ttctccgtgg cgttcccggc 420  
 cgncggcggc acggcgaagc acaccgcac ggtaaccaac gtcgggc 467

<210> 13129

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-036-Q1-K1-H6

<400> 13129

aaatcaaaat atatccatga gcattcatgc aaaaacatct tgaattcctt ttactatcac 60  
 atgctgaaaa tgagggatac caagagaaca gttcgtacgt gctcatcttg acaagtgtat 120  
 tacaccagta cacatacagt ctcagctttg agagcgttgc gacacacaca tcacagctag 180  
 cacggcgggtg ccaactgcc aagtcacttgc ctagcactgc gaactcttgc taatactcgc 240  
 tatctacctt tgagttcttc ttcaaacatg cgcattttct cctggatcgg cgccaaaaag 300  
 gacttgagat cttgcagat ccgtgttcta tcacagacg cgaggccctt gtcacgcgcg 360  
 aaccttactt gtacctncaa gtcacgacg tcgccgaatg aaaactcgg 409

<210> 13130

<211> 481

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-A3

<400> 13130

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 ggcggtctcg ttggtctctg gtgctcttct acaccaggt cctcctaac atcttctgca 120  
 accgcggcaa gctctacgag ttctccagca cgcagagcat gccaaaaaca cttgaaaagt 180  
 accaaaaatg cagttttgca gggcctgaaa cagcactcca gaatagagag aatgagcaac 240  
 tgaaaagtag ccgcaatgag tacctcaaac tgaaggcacg tggtgataat ttacagcgga 300  
 ctcaaaggaa cttgcttggt gaagatcttg agtcattagg cataaaagag ctggagcacc 360

tggagaagca gctcgattcg tccttgaagc acataagatc tacaaggaca caacacatgg 420  
 ttgatcaact gacagaactt cagaaaaaag aacaaatgtt ttgtgaagca aataagtgtc 480  
 t 481

<210> 13131  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-037-Q1-K1-A4  
 <400> 13131

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 gtacagtaca catcccgatg aagattccca acgttgaatc ttgtttgagc agccagaagt 120  
 tctgctttgt atatgctcgt agtttgtatg cgagaattct ttcctgtatc agttttttca 180  
 gaaacgattt gccttgggca tatatatagc aaaaccggca atgtggccag cagccaagtg 240  
 gagacaccgt ttcaaattga ttgaactatg gcgaataactg attgacagaa gggttagggc 300  
 atgcttggtg cttttaccag gtactattct acctggccga gcaaattgat taaggccaac 360  
 tgtttggatc caatttaggc cttctttgaa atgtgggatt tttttcccat ttcctatgta 420  
 tttcctgtga aaataaactg attc 444

<210> 13132  
 <211> 322  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-037-Q1-K1-B3  
 <400> 13132

cgttcggaat cccgggtcga ccagcgttc gcccgatgac ctacagctat gatgccgtct 60  
 tagtcgaacc ttgcttattg gcctcccggg gctcgtgtn accatcctct gcatectagt 120  
 ccggtccgnc ttcgcggagt tctggctcga cgagttcacc acggacggcg acgtncgcag 180  
 agactacgac cgttctggcc ggcaggtggc gtcgcttgtc ctcgaccagc gttctggcgc 240  
 tggcttcaac tccacgcgca agtacctctt cggcgagtgc agcgtggaga tgaagctcgt 300

cggcggcaac tccgctggga ct

322

<210> 13133  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-B5

<400> 13133

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gcgaccaaga tattttccct ctttatgctc cttgctcttt ctgcatgtgt tgctaacgcg 120  
acaattttcc ctcaatgctc acaagctcct atagcttccc ttcttcccc ataccttcca 180  
tcaatgatag cttcagtatg tgaaaaccca gctcttcagc cctataggct ccaacaagca 240  
atcgcagcaa gcaacatacc tttatcacc cttgtgtttc aacaatcgcc agccctatct 300  
ttggtgcagt cattggtaca aaccatcagg gcacagcagc tgcagcaact cgtgctacct 360  
gtgatcaacc aagtagctct ggcaaaccct tctccctact ctgagcaaca acaatttctt 420  
ccattcaacc aactgtctac actg 444

<210> 13134  
<211> 371  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-D10

<400> 13134

ggagattctt cactgccgat ggtagcttgg gttccacgct gtggcttgtg ctgaggcgat 60  
tgatcccggt aatagtattg gttgcagttt gtgtgggtta cttcatgcac agcagtgttg 120  
aagagataga ctgcatcaac tgttagtga gcagggtatc tgtgtcacc ttctgtcctt 180  
tttcagggtga gtgtttatcg ttgtatagat ctgatgagta ctacacgtat ttgttggttg 240  
tgtgggttga ggacttgagg gcgaagtatt cacgtgtact gtactgttaa acttgacttg 300  
tctaatagtt gcttccactg tctcaaaaaa aaaaaaaaaa actaaatata aaaaaataac 360  
cgaaagttta c 371

<210> 13135

<211> 429  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-037-Q1-K1-D11  
  
 <400> 13135  
  
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 acctctcacc agcgggtgtct tcgggtatgtg aaaacccaat tcttcaacct tataggatcc 120  
 aacaggcaat cgcagctggc atcttacctt tatcaccctt gttcctccaa caatcatcag 180  
 ccctattaca gcagttacct ttgggtgcatt tattggcaca aaacatcagg gcacaacaac 240  
 tacaacaact tgtgctagca aaccttgctg cctactctca gcagcagcag tttcttccat 300  
 tcaaccaact agctgcattg aactctgctg cttatttgca acaacaacta ccattcagcc 360  
 agctagctgc tgcctacccc caacaatttc ttccattcaa ccaactggca tcattgaact 420  
 ctctctgctt 429

<210> 13136  
 <211> 302  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-037-Q1-K1-E10  
  
 <400> 13136  
  
 cgacccactc gtccgggggt ttcaatctct gcaaccactg tctaacaaca aagacaatga 60  
 tgaaattttc attaagctct tttatgacaa ggatgacaag aaggaaaatg cttagcttaa 120  
 tgagcgtgcc aagaactctg tcatcattaa caaattcctt aaacctactg aaggatatat 180  
 gtactacggc agacttcacg gtctaagtgt cccagatcat cgtcatacat ttagatgcct 240  
 atactaaaag gcatacatc atgctccacg tactgctgct ccatacattg aatatcaacc 300  
 tc 302

<210> 13137  
 <211> 470  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-037-Q1-K1-E3



<400> 13137

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tgcggtagcc ccgtcgacgc cggcggacag cgtgcactat gggttgcttc ttcttcgggc 180

cagctaggaa atactgaagg gctgaacact atcagcaacg atagctctcc agacgccagt 240

tcaaaggact tgcgtgctaa gttggtattg ctgggagact cagggtgttg gaaaagttgc 300

attgttcttc gttttgttcg tggtcagttt gatcctactt ccaaggtaac tgttggcgca 360

tcttttttat cacaaacatt ggcattggag gattcaacaa tagtgaagtt tgaaatttgg 420

gatactgctg ggcaagagag gtatgctgcc ttggcgccac ttactacaa 470

<210> 13138

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-E7

<400> 13138

tacaacacaa acagtgagaa attattagta aagtgtgcat tgtggtgcg ccactgtgcc 60

atgtccgaac caccgggcaa gggcccgctgc cctttcgaac ctccccggtc ccggattgcc 120

ttcaaccgga aaggccaagc cttaagaacc aacagttcca agccgccgat ccgaagaact 180

tgcgaatccg tactctgttc cggccttgaa ggaaggggat ggtcgccgat tttatgccaa 240

tttactcgcg cccacgccg cgagtctttg atcgatgtgt ttgtacagtc gaaagagcat 300

tgctttacat aggaccattc atatatatat attgatcttc cctcccttcc tcttcccgcg 360

ggccgtcaga ggcaatttcg cctcgattc gaccccgatt cgttcgcccg cgaccgggat 420

tcccttcggc aagcgcgat ctg 443

<210> 13139

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-F5

<400> 13139

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 aggtcgcagc catggcgaag aactacccga ccgtagcgc cgagtacagc gaggtgtggt 120  
 acaaggccag gcgcaagctc cgagccctca tcgccgagaa gagctgcgcc ccgctcatgc 180  
 tccgcctcgc gtggcactcc gcggggacgt tcgacgtgtc gtcgaggacc ggcggtccat 240  
 tcggcacgat gaagcatcag tcggaattgg ctcacggcgc taacgcgggg ctggacatcg 300  
 cggtgcggct gctcgagccc atcaaggagg agttcccaat cctctcttac gccgatttct 360  
 accagctcgc gggagtgtg gccgtggagg tcaccggtgg gcttgagatt cccttcacc 420  
 ccggtaggga agacaagcc 439

<210> 13140  
 <211> 122  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-037-Q1-K1-F7  
 <400> 13140

aatcaaagga tgcgcaaatt gcttcagac tccagtgagc aggactgcag tatacactga 60  
 cattgaggca gtaatattaa tgttgataga gagaattaaa tacatctctt tgtttttgaa 120  
 ct 122

<210> 13141  
 <211> 461  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-037-Q1-K1-G10  
 <400> 13141

cggtttcgga ttcccgggtg ggacccacgc gtccgccac gcgtccggtc gaaactgctg 60  
 catatcggca ccctggagtt gagcagtacg ctggcaggtc atttgctgat gcattagatg 120  
 ctgttcact agccttggtt gaaaacagtg gtttgtcacc aattgatacc ttgaccgcgg 180  
 taaaagctca gcaagttaag gagagcaacc ccactgcgg catagactgc aacgatgtag 240  
 gcaccaacga catgaagag cagaacgtct ttgagaccct gattggcaag cagcagcaga 300  
 tcctgctagc aactcaggtg gtgaagatga tcctgaagat cgacgacgtc atctcaccgt 360

ccgagtactg atgaagcctg aaggaaggag gaaaaaaaa gagaggaaca ggtggctatg 420  
 ctggatgaga gtttagtagg cagcattgct gatgtgttga t 461

<210> 13142  
 <211> 439  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-G11

<400> 13142

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 gttctcgtgg gaaaaaaaaa aaaaaaaaaa aaatggaaaa taaaaaaatt aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggccggcctt ttttaagggtt 180  
 ccaacttttc ttccccttcc ttccaacttc ttaccttttt tttagtgtcc cctaatttca 240  
 tttcattgcc cttcttttta caacttcttg actggaaaaa ccttggcttt acccaactta 300  
 ttccctttgc atcaactccc cttttcccca gttggcttat taccaaaaag ccccgcacca 360  
 ttgccttttc ccaacatttc ccagcctaa ttggcaattt gaacccccct tttaccgtcc 420  
 cttaacccc ggcggtttt 439

<210> 13143  
 <211> 406  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-G5

<400> 13143

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 aagcaaaagc atccaactac agccggctgt aggtttccag tagtttcaga ttatccggag 120  
 ttcttagcat gtaacatcat taaaaaaaaa caaaactcta tagttaatag ggtggtattg 180  
 tgccgaaacc cgcttggcaa gaagcttccg aaggaccaac agaactagcg cagaaagcag 240  
 tatctgcgca agcatataat cgaacaaatc taggactgga tggtcacaaa cctcgagaga 300  
 tacatcggca tcaaacgcag ataatgcaac cacaacacat cttatcagga agcaggtaac 360  
 acaaattgct gtcacagtcc caacctcata aagcttcttt tgccgc 406

<210> 13144  
<211> 470  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-G8

<400> 13144

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ttccaccacc tccgccacca ccagattcaa ggccatcgct tatggcgggt ggagtttaaca 180  
ggccccctcc acctcctcca ggatttccac cgtctcaa at gccaatgcca ccgtatgggtg 240  
tgctccctgg tccgccgccc atgcttaggc ctccattttt gccaggacct cctatgcaac 300  
tagatgagtt tgctgccttt gcccgaaggc ctcatgtacc tcagcagcca tcatacgtga 360  
agtcggctgc cccaacagtt gtgaagagac cattagcaca gcacactcct gagctgacgg 420  
ctatgggttc tgcattcagtc cgtgtcaaga gagaatctgc tctccccaag 470

<210> 13145  
<211> 429  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-G9

<400> 13145

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gcctcgcttg ggccacggac gaccactccc tccacaacgc cttcagcacc tacggcgagg 180  
tcctcgagtc caagatcatc ctcgatcggg agacgcagag gtcccgcggc ttcggcttcg 240  
tcaccttctc cacggaggag gcgatgcgga acgccatcga gggcatgaac ggcaaggagc 300  
tggacggccg caacatcacc gtcaacgagg ccagtcctcg cggcggccgt ggaggcggcg 360  
gcggtgggta cgggtggtggc cgtggaggcg gcggctacgg cgggtggcagg cgccgtgatg 420  
gcggtgggt 429

<210> 13146  
 <211> 250  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-H10

<400> 13146

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 ggtccatcct tattcaacag tttcacaatt ttattttata cacactacac aatgccttcg 180  
 atacaaaata ttacttttcc aagttgatac atcctattca tttcctgtcc aattgacctc 240  
 tccattctct 250

<210> 13147  
 <211> 389  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-038-Q1-K1-A10

<400> 13147

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 caaatcctcg tcagctcgtc cgtccttggc tcnttccgtg ccctcgtcgg ctggtccatg 180  
 cgtccatgcg tccgggaccc ctcttggtcg tgtccggggt gggggcccat cccgcatcaa 240  
 ctctcgtctc ccgagtctgc cccgctggta cccgtgactc agccccggac cctgcgntng 300  
 catcgggccc gtcgcccttt cccgtggccc cggagccctg aagaaggaga tgcnttngcc 360  
 gggagcctgt ngcggacatc nnccggcgt 389

<210> 13148  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-A12

<400> 13148

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 cgcagcagca ggcgcctgcc gcgggagcgc gcgacggcag cgggtccccg gagcgggcga 180  
 cggcggagga ggagatggcg gcgctgttcc gcaagtcca cgcgaacggc gacgggcgga 240  
 tctcgcggtc ggagctggcg gcgctgttcg agagcctggg ccacggcgcg tcggacgagc 300  
 aggtggcgcg catgatggcc gatgcggagc cggacggcga cggcttcac agcctgcccc 360  
 agttcgcggc cctcaacgcc acggtggcg gcgacggcgc cgctctagag gatccaagct 420  
 ta 422

<210> 13149  
 <211> 403  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-038-Q1-K1-A3  
 <400> 13149

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 gctgtggagt gcctcagcac tgcaaaagct aaggctaaag ctaaacaggt acaagaatct 120  
 ctgaagggtg gccaatcaat tatacagaaa ttttgggcaa gactactgtg tgctggccct 180  
 gctcttcacg ctgatgcttc aatgagcagg gctgattgtg cagcaaaact taagcattgg 240  
 acggatgaat tcgcttgtag actgcagcac tactggtag ggacaaaact actctgcgca 300  
 gatgttagga tctcatcaag attgctggcg aaacttgctg ggggaaaagc ctttcaagat 360  
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<210> 13150  
 <211> 243  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-038-Q1-K1-A5  
 <400> 13150

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ggctgggggtg aggcgatgtg cgttgccaga tacagttttg tttgttgac tctacttattc 180  
 tgattatcat ttgtaagcga tttgctcaag ttatttgtcg tttatgaata acttgctttc 240  
 ctc 243

<210> 13151  
 <211> 236  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-A7

<400> 13151

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 gatacattat tttcagctta actctaatat tatttacatc tcattgtaggc ttttcccaa 120  
 cttatacagc agagctgaag acaagaaatg accgtgaccg tgaagacata atgataacat 180  
 cctagtttac atttacacta ttctgcactc tatgccatgt atacagttcc agtaaa 236

<210> 13152  
 <211> 294  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-A8

<400> 13152

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 cacatacata atccaaataa ctttattatt gaattacaac taataagcaa tttaaaatac 120  
 ggcaccacca atgatgcatt gatgttagca agcctacttg tttgtcaaag caagttggac 180  
 aaacggcatc aattgtcgta tttctaaata accagcgcag agagccacac gtatcatgtc 240  
 accatttgtg cttaagcaat attttctaata agattatcat ctgaatcttg gaac 294

<210> 13153  
 <211> 221  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-B1

<400> 13153

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gccgaattgc aaatagttca tgacatatgc tacataattg acatctaaca ttaaaagtgc 120  
ctaaaacaca aatagcctac ctttgaaatg gcaaccttag aaaagaactc ttattgacct 180  
gataggaaaa gtccaata gttaacacta taggcaaaag g 221

<210> 13154  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-B10

<400> 13154

cggattcccg ggtcgaccag cgttcgatcc gcacctataa tatctgggct ttaaaaaccc 60  
cactaaccga acgcactagc ggcgcccgtc caacaatggc taccaagata ttatccctcc 120  
ttgcgattct tgccctttta gtgagcgcaa caaatgcgtt cattattcca caatgctcac 180  
ttgctcctag tgccattatt ccacagttac taccaccagt tacttcaatg ggcttcgaac 240  
accagttgt gcaagcctac aggctacaac aagcgcttgc ggcgagcgtc ttacaacaac 300  
caattgccca attacaacaa caatccttgg cacatctaac aatacatacc aatcgaacgc 360  
aacagcaaca acagttccta ccaacactga gccacctagc catggtgaac cctgccgcct 420  
acttgcaaca acaact 436

<210> 13155  
<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-B2

<400> 13155

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aagaacttgc ttttggagaa aaaaaccccg gaagccatta tggaaggagg tgcccgctgc 120  
agccaaaaaa ggaccgtgct tgtcaccggg gccttcggct tcgtgggctc ctggctcgtc 180  
atgaaacttc tccaagccgg ctacaccgtc cgggcgaccg tgcgogatcc cgcgaacgtt 240  
gggaagacca agcccttgat ggaccttccc ggagcaacgg aacgcctgtc catatggaaa 300



agccgacctg cggaagaagg cagcttccac gacgccatca ggggctgcac cggcgtcttc 360  
cacgtcgcca cgcccatgga ctctctgtcc aaagaccctg agaatgaggt aatcaagccg 420  
acggtggaag ggatgataag ca 442

<210> 13156  
<211> 52  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-B4

<400> 13156

gaattcccgg gtcgaccac gcgtacgcc acgcgttcgc ccacgcgttc ga 52

<210> 13157  
<211> 366  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-B8

<400> 13157

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gaccttgctc gagggacgcc aactgcgcaa acgtctgcct gaccgaaggt ttcaccggcg 180  
gcgtgtgcaa gggcctacgc caccgctgct tctgcaccag ggactgctag tactgcctcg 240  
cctcgtgtcc tgcgtgtgca tatatagccg cagcggatca gtaaaacatg catgcatgcg 300  
ttaccaaata tttggcagta ccagcaagtt aatgaattaa aatattaaat aatatgtcat 360  
ggaaaa 366

<210> 13158  
<211> 453  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-B9

<400> 13158

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gaaagtggaa tccagtagca acaatagagc aacaatggcg accaagatat tttccctcct 120  
 tatgtccttt gctctttcta catgtgttgc taacgcgaca attttccctc aatgctcaca 180  
 agctcctata gcttcccttc ttcccccata ccttccatca attatagctt caatatgtga 240  
 aaaccagct cttcaaccat ataggcttca acaagcaatc gcagcaagca acataccttt 300  
 atcgcccttg ttgtttcaac aatcgccagc cctatctttg gtgcagtcac tggtaaaaac 360  
 catcatggca caacagctgc agcaactcgt gctacctctg atcaaccaag tagctctggc 420  
 aaacctttct ccctactctc agcaacaaca att 453

<210> 13159  
 <211> 71  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-038-Q1-K1-C12

<400> 13159  
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 ccactccttc c 71

<210> 13160  
 <211> 378  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-038-Q1-K1-C5

<400> 13160  
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 aatttggggg agcaataatg tcaaaagcgt ctttttttta ttggaggcag tactttattg 120  
 acctccgtga acaaaaaatg atcccaccag aggactggta agaggattcc atcataagtc 180  
 actgactaac tggggtgagg agctttacaa catgctacca tgtattgcaa tcgcttttcc 240  
 ccacaggagg ttcctaaact gggctcgcat tatataagaa gttagccaac tttcctatgc 300  
 agcagaagag ttcaacctta gcatgcgaac ttcccatgca tttatgctat gtataactcg 360  
 ttttaataccc aaaattaa 378

<210> 13161

<211> 367  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-038-Q1-K1-C8  
  
 <400> 13161  
  
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 agagcaggac agcattgac tgaccctaga ctacgcgaac actatagcac tttctattat 120  
 taagcaaatt atagaggata agatcacccc tatcaacgtc gatatctcca aggttgcttc 180  
 caagtaccac ctctacaccc atgccgacgt cgaatcctag atctctaagc tgtgaaacgc 240  
 tttcgtagct cgcgatatac atgtcatcaa tcacctatag acgaaccttt tacaaatcgt 300  
 agacatccta tgatcttgat tatacctgtc atcttactct gttgttaact cctcaatgac 360  
 aatctat 367

<210> 13162  
 <211> 78  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-038-Q1-K1-D12  
  
 <400> 13162  
  
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 acgcgtgggg caaattct 78

<210> 13163  
 <211> 457  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-038-Q1-K1-D4  
  
 <400> 13163  
  
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 caaatgcagg aaaggcattt ggggctgggg tagatgccat tggctattcc tatgccgtga 120  
 tgccatccgc caaggatctt gtgcctgaaa ctcacctca ctttatcggc acctactgga 180  
 gcatccacag caccaccttc tgtgcgtaga ttgttgagta cgcagatgcc tacctctttg 240

cacgccccat tttgaatgac tacagctctg ttggctactc attgctactc aagaaggaaa 300  
aggccatcat catacaacct gagcgcgtga taatggcgaa tggtcggca ttctgatgtg 360  
tgatgatgaa agagttcttg tctgaattgg ctaacaggtg taataagaac accactgact 420  
atgagaatta ccagaggatc tttgaatctg atggcca 457

<210> 13164

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-D6

<400> 13164

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tttccatcct tatgctcctt gctctttctg catgtgttgc taacgcgacc atttttcctc 120  
aatactcaca agctcctata gctgcccttc ttaccccata ccttccatca atgaccgctt 180  
cactatgtga aaaccagca ctttcaacct tacaggctcc aacaagcaat cgcaacaggc 240  
aacttacctt tatcaccctt gttctttcaa caatcgccag ccctatcttt ggtgcagtca 300  
ttggtacaaa ccatcacggc acaacagctg cagcaactcg tgctaccagt gatcagccaa 360  
gtagctctgg caaaccttc taactactct cagcagcaac aattttcttc attcaaccaa 420  
ctgtctacac t 431

<210> 13165

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-E4

<400> 13165

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gcgttcgacc acgcgttctc ttacgaaagg gctgttgac agggaaaaaac cgagcaagaa 120  
acagggtcac ggggtctcaat cagtgatggc acagtcacta ttgttgctaa aactcaagaa 180  
attatggata aagctattga gaaggttgag ttcctcgtgg gacgtgaaat tgaagttggc 240  
cgtacatata aaggaattgt ttcttcgatt aaggagtatg gcgcttttgt ggagttcaat 300

ggtggacaac aaggettact tcatatttcg gagtagtcac atcaaccggt tacgaaagtc 360  
 ttggatgttg aaactcttgc gcaatatctg tctatgagat gcattggaca ggacatgcgt 420  
 ggtaacatta aaattttact taaagcaacc 450

<210> 13166  
 <211> 178  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-038-Q1-K1-F12

<400> 13166

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 ctggtgggta tttgcagcaa caactattac catgtaacca ggtagggtact ggctaatttt 120  
 aagaacaacc acttggtgca ttttaacccat tgggcggaat ggaaccggt gggtattt 178

<210> 13167  
 <211> 122  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-038-Q1-K1-G11

<400> 13167

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 ccagcttacc ttcccctgca tgccaagtca taactcttct atagggggcac ctaaattcaa 120  
 tt 122

<210> 13168  
 <211> 102  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-G5

<400> 13168

accggtctcg gaattcccg gtacgacgcc acgcccgtcc ggtctacagc ttacagtgcc 60  
 tatcacgcac caagtgggcc tacatggaga agggctctcg ca 102

<210> 13169  
 <211> 270  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-038-Q1-K1-H12  
  
 <400> 13169  
  
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 tttagaagag tatcggtat gtgcaaggga tggcgatatg cattcaacca acttgctttg 120  
 acaaaccag cagcgttcta ccaacaaccc atcattgggtg gtgccctctt ttagattgct 180  
 tatgagttat agttcaataa taaagttggt gtgatgatgt ttgtggctta ccagagataa 240  
 gaaagtacag ctctagatgc ttatgtgcaa 270

<210> 13170  
 <211> 394  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-039-Q1-K1-A1  
  
 <400> 13170  
  
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 ctgcgcgaac cctcacggtc tgatcaggaa gtacgggctc atgtgctgca ggcagtgctt 180  
 ccgcagcaac gccaaaggaca ttggtttcat caagtaccgt tgaagaggcc actgtgctgc 240  
 tgtggagaac ttctacatc aaagaaatgg gtccttcatt agaaggccta atttatgcgc 300  
 tntagctttt tgttcagaac ttgagactca tgtgttaaac tcgacttggt aaagttttga 360  
 tggctacttt gtgcttggtg gaccagcttt aatc 394

<210> 13171  
 <211> 331  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-A11  
  
 <400> 13171

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 gatcctccat aacaagcagc cttggatcca cctaaatggg tgctcatgca aactcaatac 120  
 agccaggctt ctttctatt ccaaccactt atattaacca ttacttgatc tctgatgcta 180  
 caactggaat agcgtatgga cttgcccaca tagaatatgc ctatacacct gccactatca 240  
 cctgcaaatt taaccattca agatccacag atatacacia tgttggtcct catgaatatc 300  
 agaatgggcc ttcaacgacg tgctgcagac c 331

<210> 13172

<211> 190

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-A2

<400> 13172

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 acgagcaggc ctggctgtct agagggccca agcttaacta accctgcatt ccaagtcctt 120  
 agttttccaa cggaggatct gaaatcaatt aagtggccgt aactttacaa acataggacc 180  
 gggaaaaacc 190

<210> 13173

<211> 179

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-A3

<400> 13173

cggaattcgg gtcgacgcca cgcgtccggc ctggtcgaga tgtacggcaa gaactctcgc 60  
 ctgaggagc tggcgaacct cgtgagcgtt gccggcgacc acggcaagga gtccaaggac 120  
 agggaggagc aggcggagtt caagaagatg tacagcctca tcgacgagtc caagttgaa 179

<210> 13174

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-A4

<400> 13174

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gtgtaccaac aatggcagcc aaaatagggt gcttccttat gtccttggt ctttctgcaa 120

gtgctgctac cgcaaccatt ttcccacaat gtcacaagc tcctatagct tcctttcttc 180

ccccatacct ctcaccagcg gtgtcttcag tatgtgaaaa cccaattctt caaccctaca 240

ggatccaaca ggcaatcgca gcaagcatct tacctttatc acccttggtc cttcaacaac 300

cgtcagccct attacagcag ttacctttgg tgcatttggt ggcacaaaac atcaaggcac 360

aacaactaca acaacttggt ctaagaaacc ttgctgccta ctctcagcaa cagcagtttc 420

ttacattcaa ccaactggct gcattgaact ctgctgctta 460

<210> 13175

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-A7

<400> 13175

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caccaatata caaaggtgac atggccacgc gccgccactg tcaaccactg ctactgctac 120

catccgtcgc cattgccgac aacctgctt acgcggcgct gttccgccat acctgtcatc 180

agctgagcgt ttagaacctg aaaaccgact tgatcaactc 220

<210> 13176

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-B8

<400> 13176

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agttgttgcc gttctacctg cacgctatgc ctaacgctgg caccctctta caactgcaac 120

aattgctgcc attcaaccaa cttgctttga caaactcaac agtgttctac caacaaccca 180

tcattgggtg tgccctcttt tagattgctt atgagttata gttcaataat gaagtttttt 240



ggatgatgtt tgtggcgctc cagaaataag aaagtacatt tctagattct tatgtgcttc 300  
tagtctccaa atgtggtcga tagttatttt gctctaagat cgggagtaat gaagtaaaaa 360  
aaaagatata acagaagaca aacactgaag 390

<210> 13177  
<211> 333  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-039-Q1-K1-C1  
  
<400> 13177

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ccttttttat ttgcaaaaaa tcgtgccag atgaatggaa aaattttctt gaaaggggtgc 120  
attgcgagag tgaagatcaa ctccacgaga ctgagcattc tgaagagcag cttcgccttt 180  
gggcatcata ccgatgacaa actttgacaa gatctgtaag agggatgatg tactacagac 240  
aagctatagt gcttcaggct tcccttgata tggccagaga tgatgacctt atggaggggtt 300  
ttagagcagc tgacctgtta tctgaatctg atg 333

<210> 13178  
<211> 440  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-039-Q1-K1-C4  
  
<400> 13178

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atattcaaca catttgtatt gtgccgggtg tgtaatgagg tcaattctcg taaaccagaa 120  
gaactgaaca tcttttccgg agtttcaaga aatcatcttt tcttggcagt agtgagcata 180  
actgttgatg tgcaagtgat aattattgag ttcttcggga aatttacatc aacagtgaga 240  
ctcaactgga agctttggct tgtttctgta gttattgctt ttctaagttg gcccttggct 300  
tttggtggaa aattcattcc agttccgaag actgaattga aagatctcat tgtaagggtg 360  
tggcctaaac gtggcgagag tgcatacaca cagactcatg atgacagaat ggaagtacca 420  
gtgtgaaact tgtcttgagc 440

<210> 13179  
<211> 411  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-D1

<400> 13179

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tctgaggtgc aagcgtgagc tttggagggg ccagtatgca ctgagcagga tccgtaatgc 120  
tgcaaggcac ttgctcacc ttgacgagaa gaacccccgt cgtatctttg agggtgaggc 180  
gcttcttcgc cgcataaacc gctatgggct gcttgctgag ggtcagaaca agcttgatta 240  
tgttcttgcc ctacccgtg agaacttctt cgcaaggcgg cttcaaacac ttgtcttcaa 300  
ggctggcatg gccaaagtcca ttcacatgc tcgtgtcttg atcaagcagc gtcacatcaa 360  
ggttggcaag caaattggca aacgtccatc attcatggtg aggggtggaat c 411

<210> 13180  
<211> 237  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-D11

<400> 13180

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taggcttgtt tggtcttctt gtggttgttt atgatgtatc cagtgagtca ctcaacaact 120  
ttggcgaaag ccagatggtt ttcttgcaat ttttgaaaaa tattccgcgc cctgaaaaaa 180  
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa agggcagacg atctaaaaga tccaaac 237

<210> 13181  
<211> 91  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-D12

<400> 13181

agcaaatacg gttaagatgt tgccggttgt cattatatag caagaattcc atgacaaaga 60

ttgcttggca cttgattgct gctttggttg c

91

<210> 13182

<211> 154

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-D2

<400> 13182

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cggcaccctc gatcacgcgg tgcggcgagg taaggtcagc atgggtgaggg tcagtgtgct 120

taacgatgcg ctcaagtgca tgtacaaacc tgag 154

<210> 13183

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-D9

<400> 13183

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ttatgcgtcc ttgcgcttct tgcacttttt gcgagcgcaa caaatgctgt cattattcca 120

caatgctcac ttgctccaag ttccattatt acacagttcc tcccaccagt tacttcaatg 180

ggcttcgaac acccagctgt gcaagcctat aggtacaac aagcaattgc ggcgagcgctc 240

ttacaacaac caatttacca gttgcaacaa caatccttgg cacatctaac aatacaaaacc 300

atcgcaacgc aacagcaaca tcaattacta ccaacactga gccacctagc catgggtgaac 360

cctgcctgtct acttgcaaca gcaattgctt gcatcaaacc cacttgctct ggcaaa 416

<210> 13184

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-E1

<400> 13184

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gggttcgtga ggttctccgg ggtgcgggtt cgtgggtgag cggatcgaga tggcggcgtc 120  
 ggatgttgag taccgctgct tcgtcggcgg cctcgcttgg gccacggacg accactccct 180  
 tcacaacgcc ttcagcacct acggcgaggt cctcgagtcc aagatcatcc tcgatcggga 240  
 gacgcatagg tcccgcggct tcggcttcgt caccttctcc acggatgatg cgatgcggaa 300  
 cgccatcgag ggcataaacg gcaaggagct ggacggcgcg aacatacccg tcaacgaggc 360  
 c 361

<210> 13185  
 <211> 454  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-E4

<400> 13185

tcccgggtcg acccactcgt ccgcagctag caacatagaa agcacaatag tgtaccaaca 60  
 atggcagcca aaatatattg cgtccttatg ctcccttggtc tttctgcaag tgttgctacc 120  
 gcaaccattt tcccacaatg ctcaaacgt cctatagctt cccttcttcc ccatacctc 180  
 tcaccagcgg tgtcttcaat gtgtgaaaac ccaattgttc aaccctacaa gatccaacag 240  
 gcaatcgcaa caagcatctt accattatca cccttggttc tccaacaacc gtcagcccta 300  
 ttacagcagt tacctttggt ccatttggtg gcacaaaaca tcaaggcaca acaactacaa 360  
 caacttgtgc tagcaaacct tgctgcatac tctcagcaac atcaagttct tccattcaac 420  
 caactggctg cattgaactc tgctgcttat ttgc 454

<210> 13186  
 <211> 284  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-F1

<400> 13186

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 aggcctacga cgaggatgag gacatgccgg tcggctcgca tagggtgcaa tgcgcacagc 120  
 attatgcagc agtttggtag cggtgataaa atatttgacg gcggcgtaaa aatttgctgc 180

actactgtta ggtccaaccg tccaatttta cacgcgcgta ttaatgttat gatcatactt 240  
gtctttgttt aaaaaaaaaa aatactaaca aacaactaca cagc 284

<210> 13187  
<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-F10

<400> 13187

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gaatcgatgt tgaataccaa atcagtttag atattgaaat gggcatcaaa tcaaattctt 120  
gtttggatgg acaagaattht ggtatgtaaa atcataggga attttccaat tccaatggat 180  
gggctagaca ggggtccggc gtgaactgca cgattggaaa aaggctcagcc gattccaccc 240  
aaaaggagtg cacggcctct gaattgtgcg cggccatggc tactaaaatg aacagtagtg 300  
tggaattgga ttgcaatgta ttgcaattca gaataaaaca tcagcatttg cttcagccaa 360  
taccatttcc tggattctga gtgccaatca tccaacgggtg tggttaatatg ctctctgt 417

<210> 13188  
<211> 227  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-039-Q1-K1-F8

<400> 13188

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agaaatccat cngagaggct cgtcgacagg ggcaattaat ggtcgtcgtc gtctagcagc 120  
agctcaccg gcgtcttatt ctgcgacagc ccgttctggc cttcgtgctc tcgggtgtca 180  
gagccagcgc ccggacctcc tgcgtgcccc ggtgggcat accgcac 227

<210> 13189  
<211> 224  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-F9

<400> 13189

cggtaggaag catgagctgg ctgtgcttac tcttgcctggc agtggcagct accaacaagg 60  
tcaagctggc agcgcccaac agtaggcaca acctcagagt gatctgcctg aataagtact 120  
cgtagactgt aataattaaa caaagcttgc tcatgggttaa actgcgtgtt gattagtctt 180  
tcaactacat agctctaaag tttgtgataa aaaaagacag acct 224

<210> 13190

<211> 362

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-039-Q1-K1-G1

<400> 13190

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ttcaaataagg aaattttggg aaactgcttt ggggaccgtt gctggctgcg tgattttgta 120  
catcatagcc atgggttggg gaaagagaag tggattactg caatgatgcg gaagcatgac 180  
tgcagtgtg ttctgtaccc agtgaatact ggggttcacaa aaatctccaa aatgagagat 240  
tcagcttggt cgctgcggct tgctgcggct gcaatccggc tgcagctgcg gcttctacag 300  
tatttttctc tctatggatn gcagctgcag cagtccaaac agctgcaaca gtgtcggctt 360  
gt 362

<210> 13191

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-G10

<400> 13191

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ggaaatacta aaattaaaaa caaaggggct gccgttctag atgatccatg cttacgtaca 120  
catccatgcg actgtcatag catcttctat ggtgtacctt aaattcaatt cattggacgt 180  
ctttttccat cgttgcgact ggaaaaaccc tgtctttcac caaacttaat cgct 234

<210> 13192  
<211> 174  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-G4

<400> 13192

ggattcccgg ctcgacgcca cgcgttcgca gcatagaaag cacaatagtg taccatcaat 60  
ggcagccaaa atattttgct ttcttaggct ccttggtctt ttttgcaatg ctggtaccgc 120  
aaccatttat ccacaatgct cacaaagctc tatagcttac tttattcccc cata 174

<210> 13193  
<211> 343  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-G6

<400> 13193

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caatacatc accaagcaat ctacaacatg gttcagtcca taatccagga ggagcaacaa 120  
caacaaccat gtgagttatg tggatctcaa caagctactc aaagtgcggt ggcaatcttg 180  
acagcagcac aatacctacc atcaatgtgc ggcttggtacc actcatacta ccaaaataat 240  
ccatgcagca gcaatgacat tagtggtgtt tgcaattgaa gaattgtgtc tacctagccg 300  
ttatactcct ataacggtgt taagcaataa agtaccatac att 343

<210> 13194  
<211> 354  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-G9

<400> 13194

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gaactactac cattcagcca gctagctgct gtgagccctg ctgccttctt gacacagcaa 120  
caattgtagt cgctctacct gcacgctgcg cctaacgttg gcaccctctt acaactgcaa 180

caattgctgc cattcaacca acttgctttg acaaaccag cagcgttcta ccaacaaccc 240  
atcattgggtg gagecctatt ttagattgct tatgagttat agctcaataa taaagacttt 300  
ttgatgaaaa accaacaaca cataattggt ggtgccctct tatagattgc taat 354

<210> 13195  
<211> 468  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-040-Q1-K1-A11  
<400> 13195

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gaaatcccta cgaagaagta ctcaagtgtc gtcatacttg gtgctggaac tctacctttt 120  
ggaacactct tcatcgagct cttcttcatt ctttctagta tttggcttgg aaggttctat 180  
tacgtgtttg gcttctctct tgcgtgctt cttttgctga ttgtggtgtg tgctgaggta 240  
tcaattgttc ttacctacat gcattctctgc gccgaggact ggaggtggtg gtggaaagct 300  
ttctttgctt ctggaacagt ggccttttat gtgttctttt actctatcaa ctacttggtg 360  
tttgatctca gaagcttgag tgggccagtt tctgctattc tctacattgg atactctttc 420  
gttgactccc ttgccattat gctagcgact ggtaccgttg gctttctg 468

<210> 13196  
<211> 334  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-040-Q1-K1-A2  
<400> 13196

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ccaaaatcgc acgcgagccc gaggtatccc caaacgctac acgcgcccgc cggcgcactc 120  
ggggaccgtc gaatcgagca ggttgacgga tgagaggaag cctcgaagat gttccggaac 180  
cagtacgaca ccgacgtgac gacatggagc cccaggggc ggctgttcca ggtggagtac 240  
gccatggagg ccgtcaagca gggctcagcc tgcgtcgggc tccggtccag caccacgcc 300  
gtcctcgccg ccgtcaacaa gcccgacttc gaggc 334



<210> 13197  
 <211> 458  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-040-Q1-K1-A3

<400> 13197

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cgcgcgggcc cggcccgaga gggccccac gcttttcagc ccggcgccga atccttctnc 120
gccggcgacg ctccgcaca tgtggagcca caggtggacg gaactggctc cggcaccacc 180
gtcgacttca agttctgcgc ctctgtctcg tacaggggaa ctgcaatgac catgaaacgg 240
atgctggaaa cctnctttcc tgggatccat gttgtcttgg aaaattatcc tccgcggttc 300
cccaaacgcg ctctcagtaa agctgtaccc cttcttcagt tcggcgcgat ggcaacatta 360
atggccggtg atcagatctt cccaggttt ggaatggctc cgcctccttg gtactactca 420
ctccgcgcta atagatttgg gaccatggcg tcaatctg 458
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<210> 13198  
 <211> 430  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-A7

<400> 13198

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ccggcgactt cgtgctgtcc caccagcaga cgctgccagg cttcactccg ccgggctcct 120
acacgatcta catgaagatt gtcggggacg acaacgagga gctgagctgc atctcgttcg 180
ggttcagcat cggcttcgtc gcgtccagct gaacacgtcc gagcccgggc acgagaggca 240
tccagctcat ggatgtaatt acgtgaagca cactctgtat cctatgactt tttgtgggtg 300
tctgtgttca actgagacgt ttttatccgg agttgaacat cacagtaaag caaagtcact 360
gataccatgt aatggaactc tgagcgcttg atggggcccg tgtttttttag actcacaata 420
aagccggttt 430
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<210> 13199  
 <211> 311  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-040-Q1-K1-B1  
  
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 agcagctcga gcgcgacttc gaccgcctca aggcctcctt cgacgctctc cgagcggacc 180  
 acgacgccct tcttcaggac aacaaccgtc ttcgctcaca agttgtgtcg ttgaccgaga 240  
 aactgcaaga gaaggaggat gcgacggang gcggcgccac cgctgacacc gncgcngccg 300  
 cgggtggacgt c 311

<210> 13200  
 <211> 357  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-040-Q1-K1-B10  
  
 <400> 13200  
  
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 ctacttgcaa gatctgtgtt cagttgactg ggggtgcttct cagcttcttt gatgtgagga 120  
 gattggcgca cgaaatcacg tagcagtagc tcttattccc cactcgcgtt ttaacctgag 180  
 ctgcggcagt tggcattctt cattcagtcg taatggatgg gatagctcgt aataagggcg 240  
 gtgcttcgcc tggtagagga aagggaaggg aagggaaggg aagtgatggg ggagtgcgag 300  
 gacggcaagg agtacaggtg ctgggaagag ctgctgccgg acgcgctggg gctcatc 357

<210> 13201  
 <211> 255  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-040-Q1-K1-B11  
  
 <400> 13201

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gcaaccgtgg ggattactga ccatgccgag gagcatttgg gtgatgttgt ctacgtggag 120  
ctgccagaag ttggcgtcag tgtatcccag gggaagaact ttgggtgctgt cgagagcgtg 180  
aaggcgacca gcgatatcaa ttgccagtg tccggagagg tggttgaggt gaacgggaag 240  
ctaagcgagg aacct 255

<210> 13202  
<211> 315  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-B8

<400> 13202

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atctaactct actctacacc ctactctcct acccgccac gatcctggac ctogagctct 180  
ccatcctcgt caaccttcat ctctcaaat ccatgatcac attcacagag ctgctgctta 240  
caaacaccat cgatcccgcc ttgcgcgct tcgtccgcc cctccagacc cttgtcctcg 300  
catcttcac tcacc 315

<210> 13203  
<211> 471  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-B9

<400> 13203

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tgctgctacc gcaaccattt tcccacaatg ctcaaaagct cctatagctt cctttcttcc 180  
cccatacctc tcaccagcgg tgtcttcagt atgtgaaaac ccaattcttc aaccctacag 240  
gatccaacag gcaatcgag caggcatctt acctttatca cccttggtcc tccaacaacc 300  
gtcagcccta ttacagcagt tacctttggt gcatttggtg gcacaaaaca tcaaggcaca 360

acaactacaa caacttgtgc taggaaacct tgctgcctac tctcagcaac agcagtttct 420  
tccattcaac caactggctg cattgaactc tgctgcttat ttgcaacaac a 471

<210> 13204  
<211> 475  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-C10

<400> 13204

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gccacgacac gacggtgacg acgaccaacg ctggcgctcc tgtgtggaac gacaacgagg 180  
cgctgactgt ggtgcctcgc ggtcccatcc tgctggagga ctaccacctg atcgagaagg 240  
tggcgcaactt cgcgcgagg agcatcctgg agcgcggtgt gcacgcgcgc ggtgccttcg 300  
ccaatggctt cttctagtgc acccagcagc tgacgtcgct gacgtgcgcc gacttcctgc 360  
gcgcgccccg agtgcgagacg cccgtgatcg tgcgcttctc gacggtgatc cacgagcggg 420  
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<210> 13205  
<211> 461  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-C11

<400> 13205

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ctgcccataa tatcatgctg ttactgtct ccaaattgcac cggccatgcc ggcaccaggc 180  
tgggggtgggc attggtgaag gatactaagg tggctcagaa gatgatcaag tttatagagc 240  
tcaacacaat cgggtgtatc aaggactctc aacttcgtgc cgctaagatt atcggggcaa 300  
tatgtaatgg ctatgagccg gtaccatcct ctggtaaaac aagccaactc ttccatttcg 360  
ccaaggaaaa aatggcggtt cgctgggcta gacttcgtgc agctgtggca gcctcagaca 420

tctttactct tccttatgag ctatctggct attgtagctt t 461

<210> 13206

<211> 466

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-C4

<400> 13206

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tctgcatgtg ttgctaacgc gacaattttc cctcaatgct cacaagctcc tatagcttcc 180  
ctttttcccc cataccttcc atcaatgata gcttcagtat gtgaaaaccc agctcttcag 240  
ccctataggc tccaacaagc aatcgcagca agcaacatac ctttatcacc cttgttggtt 300  
caacaatcgc cagccctatc tttggtgcag tcattggtac aaaccatcag ggcacagcag 360  
ctgcaacaac tcgtgctacc tgtgatcaaa ccaatagctc ttgccaacct ttcttcctaa 420  
ttttaacaac caccattttc ttccattcaa ccaactgtct aactg 466

<210> 13207

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-C9

<400> 13207

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gccagcagca gcctgtacga gccagctctg atgcagcagc agcagcagct gttggcagct 180  
caggggtctca accccatggc catgatgatg gccagaaca tgccggccat ggggtggactc 240  
taccagtacc agctgcccag ctaccgcacc acctcctgtg gcgtctccgc tgccattccg 300  
ccctactact gattcatgat atttgggaaa tctgctctat ccatccctct ctatctatat 360  
ctgtaataat gcactaagac gacacacatt atcatgtgtg gtatgaccaa taatatatgc 420  
atgatcataa taaagttttg gttttaatgg 450

<210> 13208  
 <211> 465  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-D11

<400> 13208

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 acatcacctg caacgagggc cagtcccgcg gcgccgctgg aggcggcggc ggtgggtacg 180  
 gtggtggccg tggaggcggc ggctacggcg gtggcggcg ccgatgatggc ggcggcggct 240  
 acggcgggtg cggcggctac ggtggcggcg gcggtctacg tgggtgggtg ggcggctacg 300  
 gcggtggcaa ccgtagggcg ggctacggca actccgacgg gaactggagg aactgagcgg 360  
 tggggcccg cgggccaagt tatcctgttc gctgccgtga tgtttaccct agtccagagg 420  
 gtttatcttc gatcgtctcg tgtttgttgg tgccatctgt ggttt 465

<210> 13209  
 <211> 449  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-D12

<400> 13209

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 accaatggca tttggtttgc tggtaaattg tctcgtggct ccgtagtttc cctgtggctg 120  
 tctgtctata atttatgttc attatcttgc tccggagacc gaagaatctg aggacttgta 180  
 tgtatctggg atcaagatgt gaatctcgca tgtaccagat gacagaactg ttaagactta 240  
 tatttgtctg acgttaaact gcaagacttt tatttaagct agaactttga tcactataag 300  
 atatggcatg atatagcagg gctcttgaga tgcattctct tgtgcgtgct tggtaactgt 360  
 agtcgtgcaa ctgttgacgg cgtttgttca gaacaagtgg ttgatgaatc tgaagatggg 420  
 ttacggagtg ggaatgattt tgtttgtgt 449

<210> 13210  
 <211> 457  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-040-Q1-K1-D2

<400> 13210

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 attaattcaa ggtcatcaaa tccccttgat agtgggttaag agtgatgggtg gcttcaacta 180  
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 gatggctggg tggctgccag gtccaaacga anagaagttt ccgaanacaa gccatgttgg 360  
 atttgggtcta gttcttgggt cagatggcaa gcgggtccga acgcgcagta ctgaggttgt 420  
 tcgatgggta aagctacttg atgaggctaa atctcgg 457

<210> 13211  
 <211> 472  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-D3

<400> 13211

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 taccgcaacc attttccac aatgctcaca agctcctata gcttcctttc ttcccccata 180  
 cctctcacca gcggtgtctt cagtatgtga aaacccaatt cttcaaccct acaggatcca 240  
 acaggcaatc gcagcaggca tcttaccttt atcacccttg ttctccaac aaccgtcagc 300  
 cctattacag cagttacctt tgggtgcatth gttggcacia aacatcaagg cacaacaact 360  
 acaacaactt gtgctaggaa accttgctgc ctactctcag caacagcagt ttcttccatt 420  
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<210> 13212

<211> 474  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-D4

<400> 13212

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aagcgcacta gcaacgacct aacaacaatg gctgccaaaga cattatccct ccttgcgctt 120  
cttgcccttt ttgtgagtgc aacaaatgcyg ttcatattc cacaatgctc acttgctccg 180  
agtgccatta ttccacagtt cctccctcca gttacttcaa tgggcttcga acaccagct 240  
gtgcaagcct ataggctaca acaagcgctt gggcgagcg tcttagaaca accaattgcc 300  
caattacaac aacaatcctt ggcacatcta accatacaaa ccatcgcaac gcagcagcaa 360  
caagcactga gccacctagc cgtggtgaac cctatcgctt acttgcaaca acagctgctt 420  
gcatccaacc cacttgcttt ggcaaacgta gctgcatacc aacaacaaca acag 474

<210> 13213  
<211> 470  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-D9

<400> 13213

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tatgtgtcat atgccttgag caagaggaca atgctgtttt tgtgccgtgt ggtcacatgt 120  
gttgtgttat ggcattgctt tcacatttga cgaactgccc actttgccgg agaagaattg 180  
accaagctgt cagaaccttc cgccattgat ggtgatatat gatgcaaaaa actggcatgg 240  
taccaccaca tgtactgctt ctgaaaccaa tttgttcttg gaacttggaa gtgctggctg 300  
ctatcaacca acgacatgaa ctgcaatact gggacgaagc agcttcaatg agtttgcttt 360  
ttgaacagaa cagtgagtga tgcaagttgc aagctcataa ttggcagttg agatactctc 420  
actccctaga tagtgccaat ggggtgctctt gcctgtaatg tactacaact 470

<210> 13214  
<211> 438  
<212> DNA



<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-040-Q1-K1-E1

<400> 13214

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tgaccccttc gaggtcctgg accagagggg agtgggagag ctggtgaagt ttgctacaga 120  
gagggggccgc aaagctaggc ctaacttgaa ggtgggcatt tgtggagaac acggtggaga 180  
gccttcgtct gtggccttct tcgcgaaggc tgggctggat tacgtttctt gctccccctt 240  
caggggtccg attgctaggc tagctgcagc tcaagtgtt gtctgaggct gcctnctcgg 300  
tgggcaaccg aatggcctgc tgctgggtgg atgtggtgat caacagtatt attacagagc 360  
catgctatgt gaacattact agtagcaatg ctcataaaag ctacaatccc atcttccttt 420  
tttttccagt catgtaaa 438

<210> 13215

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-E11

<400> 13215

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tatatctgat ctactgaac gactgggatt tgaggatcgt gacccccctg tggttcctct 120  
ggaatgctca ctgaagcac catcatttga tgaggttgat gttcaagccc tagcgcatgc 180  
tgttgagttg acaagacaag gtgctgtgga tagcttgaag tttgcaaaag gacatttata 240  
ccaagctttt cagaacgaat tgtgccggat gaagctggac ctgacacttc tggataaact 300  
tgtacatgag tattgtgtat acaggggaat agttgaaggc agttcacatg ttctttctgg 360  
aactgctgac ttgaaatgta atcaaaaataa tgatgttaat aatgaaacac agctttattg 420  
tgaaatgacc aacaatcaga atggacattg tagcaccag 459

<210> 13216

<211> 473

<212> DNA

<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-040-Q1-K1-E2

<400> 13216

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aggacactgt ggatgtgggc atcttggttag gaggacnaga agagagatgt gaggtgaagg 120  
tggcgttatc caactcattc ggcttcgggtg ggcacaactc atcaattctc tttgccccct 180  
ttaaggaact gccatcttcc tcatcgtcca aatagattca tataatctgga tctccacata 240  
gaagacaagt ggactctgca acttcctcgg tgccatagat attacaggga ggtccaaact 300  
gagcgtatct gagcgaacaa aacatcagcc cccctacatg tttcatctat atcacgaagt 360  
tgcagatatg tggttaactat caaaaggatt taccgtacct gggccagtgt tttcgccctc 420  
accatacctg cccattgtca gtactatttc ctagatttgg agtagtcccg tac 473

<210> 13217  
<211> 388  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-040-Q1-K1-E3

<400> 13217

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gagagcggct acaggataac ttccacggca gcccacacga ccaagccgct ttcacacctga 120  
gcatgccgaa acggaagccg atggacgaga cacatgaaac gctgaggacc ttgncctttc 180  
cccagctcac acgtcaaaga gaaatgggcc aagaacctct acatcgcttc gatttgcttc 240  
gggcggaccg tgtgctgac gcgcgcgcct gggaaatgga agtccaaacc agggccaacc 300  
attccgtacc gtggccccctt ggattaagaa aatccaaaat gggccttaag tccaaaccaa 360  
gtctaataatg aggatcagtg tatctctg 388

<210> 13218  
<211> 328  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-E5

<400> 13218

accggtttcg gaattcccgg gtcgagccac gcgcgctca accgtcacct ctcaagagcc 60  
tactgtagca acattggagg gtacaagaat gaagatttgt tgaagtctta gctgcacagc 120  
agagcccaga taatccaaac tggtttcagg gtactgcaga tgctgtaagg cagtacttgt 180  
ggttgtttga agagcataat gtgatgaaat ttctaattct gcttgccaac aactgggtccc 240  
ggatggcctt tgaaagggtca atcaaggcca cagagaaaca aatgctgata ttaccgttgc 300  
tgtctaccg atggatgaga aacgtgcc 328

<210> 13219

<211> 466

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-E9

<400> 13219

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ggtaatgttg catccgttgg gtcgttaatg ttgggtgagt cactcatgac tataatggat 120  
acaaatgact actctgcagt tccccagcag ttgaaggaaac agttgaatga aagggtaccct 180  
ggtgcaaggc gtgctgtact gaagactggt ggtgattttc ccttctgtc tcgtctgat 240  
gaggttaatc tgtaccttca gctacatctg agacgagttg gtgtagagcc aaggtcagac 300  
ctggtccaag gctttaccgg aaatggcagc gctgggagtt caaaggatca aaaagatgga 360  
ggggacagct ttgataatag tgggtggagac aatggccacc atgggttcagg tggcagtgat 420  
catgacaggc ggcattgtgc atcagaatca caccattccg acgagc 466

<210> 13220

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-F1

<400> 13220

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tgtacactcc tgatagtttc aaatttttca caggttctcc atgggtcatt ttgaacagac 120

gctttgttga gtattgtatt tttggctggg agaatctccc tagaactctc ctcatgtact 180  
tcacaaacgt gatgctacct ctagaggggt atttccattc ggttgcatgc aactcggact 240  
tccgcaatth cacagtgaac aacgacttgc ggtatatgat ttgggacaat ccacctcaga 300  
tggagcccca tttcctaaat gttacacatt atgatgagct agtaaggaat gggggtcctt 360  
ttggccggaa ggttaaggag aatgaacctt gttggacaag attgatgatc aagtg 415

<210> 13221

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-F10

<400> 13221

ggaattcccg gtcgagcacg cgtccgcccc cgcgtccgcy gacgcgtggg agcagtttga 60  
gctattccca gcgaacccaa agtggccacc gtcagcagca tgttgtgctg tgtggaagag 120  
ggcagatgth ccatgcctat gcaaatatgt taacaaggaa gtagagaagg tatgggtgcat 180  
ggagaaggth gtgtacgtcy ccaactatgg taaaagcccg tttcaacctg cctacaagtc 240  
cggaagttat acagttcctc taagtatgaa aaaggattgg ttggaacatg tggaactctt 300  
tcctaaaact ttaatttgaa atttgtacca tgtaaaagac tattgaaatt aatatgtatg 360  
gagtaatatg cttccttctt tt 382

<210> 13222

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-F11

<400> 13222

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aacaactgat ttcatttagc cctctggctg tggtaaatgc acctacatac ctgcaacaac 120  
agttgctgca acagattgta ccagctctga ctcagctagc tgtggcaaac cctgctgcct 180  
acttgcaaca gctgcttcca ttcaaccaac tgactgtgtc gaactctgct gcgtacctac 240  
aacagcgaca acagttactt aatccactag cgggtggctaa cccattggtc gctgccttcc 300

tacagcagca acaattgctg ccatacaacc agttctcttt gatgaaccct gccttggtgt 360  
ggcagcaacc catcggttga ggtgccatct tttagattac atatgagatg tactcgataa 420  
tggtgccttc atagcgcat gtgtttccta gaaataatca ata 463

<210> 13223  
<211> 464  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-040-Q1-K1-F12  
<400> 13223

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tcgagaccac caagtactac tgcactggta ttgatgcccc gggacaccgt gacttcatca 120  
agaatatgat cactggcact tcccaagctg actgtgctgt tcttatcatt gactcaacca 180  
ctggtgggtt tgaggctggg atctccaagg atggccagac ccgtgagcat gctctccttg 240  
ctttcacact tgggtgtgaag cagatgattt gctgctgcaa caagatggat gctactacac 300  
ccaagtattc aaaggcccgt tatgatgaga ttgtgaagga agtctcttcc tacctgaaga 360  
aggttgata caaccctgat aagatccact tcgttccaat ctctgggtttt gaaagtgaca 420  
acatgattga aagggtccacc aaccttgact ggtacaaggg ccca 464

<210> 13224  
<211> 466  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-040-Q1-K1-F2  
<400> 13224

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agcatagaaa gtggaatcca gtagcaacaa tagagcaaca atggcgacca agatattttc 120  
cctccttatg ctcttgctc tttctgcatg tggtgctaac gcgacaattt tccctcaatg 180  
ctcacaagct cctatagctt cccttcttcc ccatacctt ccatcaatga tagcttcagt 240  
atgtgaaaac ccagctcttc aaccctatag gctccaacaa gcaatcgag caagcaacat 300  
acctttatca cccttgtttc aacaatcgcc agccctatct ttggtgcagt cattggtaca 360

aaccatcagg gcacagcagc tgcagcaact cgtgctacct gtgatcaacc aagtagctct 420  
ggcaaacctt tctccctact ctcagcaaca acaatttctt ccattc 466

<210> 13225  
<211> 454  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-F9

<400> 13225

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gttgagaagg ttcttgattc tacttaggat atgattggag gtcttgagca gcaaattaaa 120  
gagatcaaag aggtcattga gcttccaatc aaacatccgg aactatttga gagccttgga 180  
attgcacaac caaagggtgt cctcctttat ggacctccag gcacaggaaa gacattgctg 240  
gcacgtgcgg ttgctcatca cactgactgc accttcatca ggggtgtctgg ttctgagttg 300  
gttcagaagt atattgggtga aggtcccggt atgggttcggg aactctttgt tatggccagg 360  
gaacatgcac catccattat atttatggat gaaattgact ctatcggatc tgctagaatg 420  
gagtctggaa ctggcaacgg tgatagtga gtgc 454

<210> 13226  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-G10

<400> 13226

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ctgtcccaac tgagcggtaa ggacgtcacc gagctcattg ccgcgggcag ggagaagttt 120  
gcttcagtcc catgtggtgg cggcgggtgtc gctgttgagg cagctgcacc tgctgctggc 180  
ggagctgctc ctgcagctga ggcaaagaaa gaagagaagg tggaagagaa ggaagaaagc 240  
gatgatgata tgggcttcag cctcttcgac taggctgcac agtcatcaca gtattgtttt 300  
gggcagtga accagaggaa aaccagagtc atgttttagat ttttaagctt ttttatgttg 360  
gaaagtactg gaaagactgc tacttgtctt tatatttggt aattcagccg tagattgcta 420

tgctggttgg gattt

435

<210> 13227

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-040-Q1-K1-G11

<400> 13227

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cgcattctggg gcgggagtg cagtccttga tggaggccgt gttcccgag gcgcgcgatc 180

ggggccaggg cgcgcgcgcg gcgctcgccg tcgaggaggg ggagcagggc atcttccgca 240

acaccgtggc cgcgctcttc accatgcagg acgtccgcgc ggggagctcc accagaggaa 300

gccactcgct gccgcgcgtc aacctgccgg actccgactg gctacggctc ttcgaccgcg 360

cgtttccgat cccgaccgca tgacatttgt tgctcgccgc tcctagtagg cttgcgccag 420

cctnctcgat ctcccttctt tttcggtt 448

<210> 13228

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-G12

<400> 13228

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cggcggagga ggcattctgc gctggatatc gacacctaga ggagaccacc aaagcagcag 120

cgatatgagc tccttgagg ccgagatgaa gtcggcctcg tccttcaacg gaggcaggat 180

gccatgaccg acccatcggg cgagcttata aacaagacat aagctcgcg acagtaagca 240

agagacttga tcaagcagat gcagtggaga gagtaaggta atcgttatat agcgtagtag 300

caatcaatgc aagttatcaa ctgagtcgca tgagtgaagt catgcatgga taaagctggc 360

tagcttagct agctttcatc atccgaaagg accctgggtg agagatcgag aggcgtcttt 420

ctctgactaa aggagtaagc t

441

<210> 13229

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-G2

<400> 13229

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tgactcactc aagcctcgca tatttgtgct cctgagacgc tgctgtttg atggagatga 120

cgaggtgcmc gatagagcga ccctttacct caaattgtta ggtggggaag ctacagtggg 180

tgagacagag aaggatgtga atgaatttct cttcggctca cttgatgttc cattagtaaa 240

cttgagacgc agtctgcga attatgaacc ttcggatgta ctttttgata tttcatctgt 300

ttcgaaggaa acaaaatccc aaccccttgc ggagaaaaag tctacaggca agaaatcagc 360

aggtccagca tctgctgtca gtggctctgt ttctacagtt gatgcttcgt atgagaagct 420

tctttcgt 428

<210> 13230

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-G9

<400> 13230

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tgaggcatca gtgcagcccg acggcgacgc cctactgctc gcctgagtgc cagtcgttgc 120

ggcagcagtg ttgccagcag ctccaggcagg tggagccgca gcaccggtag caggcgatct 180

tccgcttggc cctccagtc atcctgcagc agcagccgca aagcggccag gtcgcggggc 240

tgttggcggc gcagatagcg cagcaactga cggcgatgtg cggcctgcag cagccgactc 300

catgccccta cgctgctgcc ggcggtgtcc cccactgaag aaactatgtg ctgtagtata 360

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cgcacacca tgggtggcaa tgtcagtgtg agcaatga 458



<210> 13231  
 <211> 442  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-040-Q1-K1-H11  
  
 <400> 13231  
  
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 cccttcagaa atgagaatgg catcctccgc aagtggatct ctcgttttga tgtctggcca 180  
 tacctggaga catacactga ggatgtttcc agtgaaataa tgaaagaaat gcacgccaaag 240  
 cctgacctta tcattggcaa ctacagcgat ggcaacctag tcgccactct gctcgcgcac 300  
 aagttgggag tcaactcagt taccatcgct catgccttgg agaaaaccaa ataccccaac 360  
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 gaccttattg ccatgaacca ca 442

<210> 13232  
 <211> 455  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-040-Q1-K1-H12  
  
 <400> 13232  
  
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<210> 13233

<211> 339  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-040-Q1-K1-H3  
  
 <400> 13233  
  
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 cagttgctgc ctttctacca gcagtttgcg gctaaccccg caaccctctt acaactacaa 180  
 caattgttgc ctttgtcca acttgctttg acagaccag cggccttcta ccaacaacac 240  
 atcattggtg gtgccctctt ttagattgct tattagttgt aattcaataa taaagttttt 300  
 tggatgatgt atgtggccaa ccagaaataa gaagttaca 339

<210> 13234  
 <211> 183  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-040-Q1-K1-H8  
  
 <400> 13234  
  
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 atc 183

<210> 13235  
 <211> 209  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-041-Q1-K1-A1  
  
 <400> 13235  
  
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 aaattaatga aattaaacag attgactctc tcgttaattc accccacata cccacaaaaa 120  
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ctcttttata acccatatac acttaatta

209

<210> 13236

<211> 389

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-041-Q1-K1-A11

<400> 13236

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cgttcctctt ctggcagtcg atggacaggg tccacgtctg gatcgccctt caccaggacg 180

agaagaaaga aaggatggaa agggagctgg agataaagag aatgcaggca gagttactgg 240

ccaagctaa agagaacgaa tcatgattgt catttgtcca atggtttcag gcagttcctt 300

tatcgtatct cctctgctgt attttccatg caatatcttg actgatgtat gctcatgctc 360

aacacctnca ataaagcgag acatgctat 389

<210> 13237

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-C3

<400> 13237

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gagaaaaatc ccatccccag aaaacagcga gaaaaaataa atgaattacg caaggagctt 120

ggtgaacact catcagaagc cattaaagac ttcctttcag atgcctcgtt agtgcgattt 180

cttcgagcaa ggaactggaa tgtgcagaaa gctagtaaaa tgatgaaagc agctgtgaag 240

tggcggcttg cattcaaacc tgaaaacatc tgttgggatg atattgcaga ggaagcagag 300

actggaaaga tatatagggc ggattataag gacaaacatg gcagaactgt tcttgtattg 360

aggcctggct tagagaacac tacctcagca ataggacaaa tcaaatatct agtctactct 420

ctggagaaag c 431

<210> 13238  
 <211> 410  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-041-Q1-K1-C7  
  
 <400> 13238  
  
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 gtcgacctcc gctccagctg ccggatcgctg ctgcccgcgg ggagctacct cgccgccttc 180  
 agcgaccgcc tcacggggcg cctcgacgac cgccgcctct cgggcctcga cggcatccgc 240  
 gtcagggcct tcttccgctg gtgggtccatc acggggatcc gcgccgatgg ggaccagctc 300  
 gtcttcgagg tcgggtccgt ctccgccaaag ttccccgcgc gggacttcaa cgccagcctc 360  
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<210> 13239  
 <211> 128  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <213> Zea mays  
  
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 ttgcttcctt atgtccttg gtctttctgc aagtgtgctt accgcgacca ttttcccgca 120

atgctcacaa gctcctatag ctcccttct tccccatac ctctcatcag cgggtgtcttc 180  
 agtatgtgaa aaccaattc ttcaacccta caggatccaa caggcaatcg cagcaggcat 240  
 cttaccttta tcaccttgt tcttgcaaca accgtcatcc ctattacagc aattaccttt 300  
 ggtgcatatg ctggcacaaa acaataaggc acaacaacta caacaacttg tgctagcaaa 360  
 ccttgctgcc tactctcagc atcagcaagt ttcttcattc aaccaactgg ctgcattgaa 420  
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<210> 13241

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-D7

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 aatactcaca ttattctata gtatacctac tacaccata cctctcatca cacatacctt 180  
 aactatctta aaacaccaat ctaaatacct acacaatcca ccactatctc tatacatgaa 240  
 tcttaccata atcacacatt ttccactaca acccacatac atataacatc aaacatatct 300  
 accacattta ctcaaacaca acatcaggcc acaccaacaa ctacacctct aactatcaaa 360  
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<210> 13242

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-E10

<400> 13242

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 ggctgctggg tttgtcaaag caagttggac aaagggcagc aactgttgca gttgtaaaag 180  
 ggttgccggc ttagccacaa actgctggta gaacggaagc aattgttgtt gtgtcaagaa 240

agaagcgggg cttgtttag ctagctggcc aaatggtagt agtatttgct gctggaaata 300  
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<210> 13243  
 <211> 354  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-041-Q1-K1-E2  
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 ggaggggtgga gggcaaagac atgaattcgc ataaattaaa tatgcatgta atatctatat 120  
 ctgcattgca ttttgtgaaa tatgatgcat gcatggtttg tatattccgt aataaccagt 180  
 agttggttaag ctatgtgtgt gtatggatgt actagctagt acatgcaccg tatcattgca 240  
 tgtgtggtat atgtctcgtt tgggtgtagt aatctgcttg gttgtgctga tgactgatgg 300  
 ttgtaagaag caaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaaac caaa 354

<210> 13244  
 <211> 414  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-041-Q1-K1-E3  
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 aggccgcaca ggataagggt aagggccagg cgctatcaaa ggctgctaaa gaggccgcca 120  
 agaacaaggg gaaaggggaag agtgctgcag atgacgatga tgaccagaaa caggtagctg 180  
 tgccgcggaa gtggcgtgac tacagtgttg agttccattt cccagagcct acagagctca 240  
 caccacctct ccttcagctc attgaggtag ggtttagcta ccttggtagg ccagacttca 300  
 aactctcagg tgttgatgtt ggcattgata tgggaacacg tgtagctatt gttgggcca 360  
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<210> 13245

<211> 310  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-041-Q1-K1-E7  
  
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 tctacttcag gtgtcagatc cggagaggac cctccttct cccgctcggc tactttaacg 120  
 gcccatgggt gacccgcgtc gctctggttc tgatcaccat ctggtgggga gtaggcgagg 180  
 tagcgagact gagcttcttg aagcaaaagc tgttctccag cttgacatgg cagaggaaca 240  
 tatgcgatgc gtacatactt tccaacctag ggttcgcgga gccggggatc ttcttcgcat 300  
 tcgctttcct 310

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 <211> 468  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-041-Q1-K1-G10  
  
 <400> 13246  
  
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 aggagggccg aggcaatgag gaccgagtaa cactcatcaa ggattatcct ggcaagattg 180  
 agactgagct gaccaagatc tgtgatggca tcctcaagct gcttgagacc catcttgtgc 240  
 cgtcttccac tgcccccgag tccaaagtct tctatctcaa gatgaaaggt gattactaca 300  
 gataccttgc tgaattcaag actggagctg agagaaaaga acgcccgtga gaacacgatg 360  
 gtggcataca aagctgcca ggaccatgct ctggctgagc ttgctccaac tcacctatt 420  
 aggcttggaac tggcacttaa cttctcagtg ttctactatg agaactctg 468

<210> 13247  
 <211> 374  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-042-Q1-K1-A11

<400> 13247

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atccatagag caacaatggc taccaaaata ttgtccctcc ttatgctcct tgctctctct 120

gcatgtgctg ctaacgcgac aattttccct caatgctcac aagctcctat aactatcctt 180

cttaccat accttacatc aacgatagct tcagtatgtg aaaacccatc ttttcaacct 240

tataggctac aacaagcaat cgcagcaagc aacatacctt gatcaccctt gtttcaacaa 300

tcgccagccc tatctttggc gcaatcattg gtacacacca tcaaggctca gcatctgcaa 360

caacttgtgc tacc 374

<210> 13248

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-A4

<400> 13248

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aaacaaacaa aataaaaaaa aaaagggggg cggtttata agtcccaaac ttccgatccc 120

gtgaatacaa cgccataatt cttataaacg gcaccaaact tcaatcaact gcccgctat 180

a 181

<210> 13249

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-A6

<400> 13249

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ttaataacag tgcaccttc atctcatgat taaaatatag agagatgcaa aggaggttca 120

ggaacaaaaa aacaacttgc taaataaaac actgctatct actaacaac atctaacagg 180

ttctaccag tactaaaaca caagtaaaaa ccgttcagat gttctaactc ctctctctct 240

ctctctctct ctctctctct cttttcactg agagggttagc ttcgggtcaa tccgtcagca 300



agccaaacac actgaacgcc gccaatcgga tgcccagcca tgacggccaa aacacct 357

<210> 13250

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-A7

<400> 13250

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tggagtgtg gccaatatca accgtgttct gctgcccattg atgacggcgg agaaggcgtc 180

cagtggcgg agcaaggagg caaagtcgtc catgaaggcc gccctgttct ctactaacgc 240

atagactgac tgttcggagt gatctgatgt ttagcagtag cttgtttacca gaatgctgag 300

atgcgtatgc tgcagatggg acgaatgtgc ttgtatgtgt atgtaggctg ctgtaagtgt 360

aactttgcta tttaaatgg aagaagaaat 390

<210> 13251

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-B11

<400> 13251

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tctaattctgt acaatgacct gctgatggtg ttctcggttc gagaagagaa aacggtccca 180

caactcgta attcaaagca acccatccgt tgtggtgaac aggggaaaac ttctgatttg 240

ggtgatgcat cggagtccga ttccgatggg gattgtcaat ctggcaaaga acttgacca 300

ccagttcaga agcatacaag agccaaccgg aagcatatag atagcattac tttagttgat 360

atagctcagt acttccatct tccaatccga gatgcatcaa agacactcaa gattggggtc 420

agcatattga agaggaaatg ccgacagt 448

<210> 13252

<211> 301  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-042-Q1-K1-B12  
  
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 tcgcctgtgc cacggacgac cactccctcc acaacgcctt cagcacctac agcgagggtcc 180  
 tctagtccaa gatcatcctc gatcgggata cgcagaggtc ccgcagattc gggttcgtca 240  
 ccttgtccac ggaggacgcg atgctgaacg ccatcgatgg catgaacgag ctggaactgg 300  
 a 301

<210> 13253  
 <211> 466  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 catttggttg cacanaacat cagggcacia cagcgacaac aactcgtgct agcaaactt 120  
 gctgcctact ctcagcaaca acagtttctg ccattcaacc aactagctgc attgaactct 180  
 gctgcttatt tgcaacaaca actagtacta ccattcagcc agccagctgc tgccctacccc 240  
 cagcaatttc ttccattcaa ccaactagca gcattgaact ctcttgctta tgtacagcag 300  
 caacaactac taccattcag ccagctagct gctgtgagcc ctgctgcctt cttgacacag 360  
 caacaattgt tgtcgttcta cctgcacgct gcgcctaacg ttggcaccct cttacaactg 420  
 caacaattgc tgccattcaa ccaacttgct ttgacatacc cagcag 466

<210> 13254  
 <211> 208  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-042-Q1-K1-C4

<400> 13254

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cgttgaaagc tgatgacagg ggaggggaag ttcacaaaga tctcgttct atgcagccac 120  
tttcaaacca gaaaggaaat tcttaaattc tcattaagct tggttcttac caggattaca 180  
agaatggaaa ttcttaacct tattaacc 208

<210> 13255

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-C5

<400> 13255

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cctactcgtc cgcccacgcg tcctaaaaag aaagaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaata ataaaaataa tataaaaaatt attaacttct taaacttatt catacaactt 180  
tataattatt atattatatt atctaatttc attaacttaa tctacttact cacatctttt 240  
ttaaactgct taatacctta tggtatcaat ttgatatta tatttgtaca tcataattt 299

<210> 13256

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-042-Q1-K1-D2

<400> 13256

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ccgtgcccgct cctcctccgt gcctccgcct cctcggggtc ccaccgcagc gccgtcctgc 180  
tccggcccct cgctgccgcc gtggcgccgt cgaagccccg cgcgatgccg atctcctcgg 240  
cgcccgcgac gagaccagc ttcgacgccg agctactcag cgtcatcgac tccgagatca 300  
agtacgccga ggactgcgat gaccacgaca ggggtgcgga gattccagaa aatgtccctt 360

tcaaaatcag cgacgagaag gggacgaatg cagctaccct taaaagaaca tatcaagggtg 420  
agcagattga 430

<210> 13257  
<211> 239  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-D6

<400> 13257

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tcatcatatc tgcgaggata cgaactgatt aattagacct agtcgaactc atatatatac 180  
atagtgtgta aattcaaata agatgatgga acagggttata tgcaattctt tcgcttcaa 239

<210> 13258  
<211> 467  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-E3

<400> 13258

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ctatctgcaa tgtgttgcta acgcgacaat atttccctca atgtcacaa gtccttatag 180  
cttcccttct tccccatac cttccatcaa tgatagcttc agtatgtgaa aaccatctc 240  
ttcaacccta taggcttcaa caagcaatcg caacaagcaa cataccttta tcacccttgt 300  
ttcaacaatc accagcccta tctttgggtc agtcattggc acaaaccatc agggcacagc 360  
agctgcacca actcgtgcta cctgttatca accaagtatc tctggcaaac ctttctacct 420  
actttcagca acaacaattt cttccattca accaactgtc tacattg 467

<210> 13259  
<211> 370  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-F10

<400> 13259

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gtcgagtcaa aagatgagaa ttgaagcgt aatgtaacgc ttagaccaa tgcctggctct 180  
gaacatacat atgatcagag tgatgagggg gagctctgtg agcttcagac tacggaatac 240  
agataatddd ggaccaagtg cttggagttc acttggattg gattctgctg aatdddctgg 300  
tagggcggcc gctatagatg tatcaaacctt acatacccggt gcatgctact gcttacctgt 360  
ctgatagtgt 370

<210> 13260

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-F11

<400> 13260

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atagtgttgt gaggtatgct gaagagcagt tgatgatgag aaatcagcat cgcacatcc 180  
actggcaagc aaggctctgc aagttgaatg acatagttaa aaggggcaac aagtgtgata 240  
tcaccccaa ctatcacaat ttgttgttcc aaaggatcat cttaaacatc agtgatacat 300  
ctagcatatt tgtgaacaat tcaactgaatg gaaaccaaat tggaaagaca tttccaaatt 360  
tggatgcac tttggcattc aatdddgttd tcgaagccga ggagaaccaa agagtttagtg 420  
atttacagtc cttgcagaag aagacaatgg aaa 453

<210> 13261

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-F12

<400> 13261

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gctgggtccc ctgcacctgt ggtggacggc actgtacctt ctctggttgc tctactggc 180  
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gtggcatctt ctatagctat gctctgcttt gctttgaaca cttgagtttt agggctatct 360  
agctgaacct gttgtgcaat attgctgacg ttgaaatfff tggttaatct tataactgga 420  
aatgatgc 428

<210> 13262

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-G12

<400> 13262

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agtggggata cagcaccgc gtggtcgacc tgatccgtca catgaacagc accaactaag 180  
atgaagaact caagtcaagg tctggtgata cgagcgagtt gtcttcttcc cccccgggag 240  
aaaagtgctt acgagaataa attttttcca tcggaatgtc tgaaactatg ttgggtgtat 300  
cctagtgggtt ggttgagcat taatggctca tattttgtca ggtctatgtg tcgccgtgaa 360  
acttttaatc aaatcagttc actc 384

<210> 13263

<211> 179

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-G2

<400> 13263

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aaaagagatc taataaaaaa actaagggcc ggcccttcta acgaatcaa ccttacttcc 120

cagtgtttac gacgtcaaag ttcttctaga gtcacctaa attcacttcc ctaccctt 179

<210> 13264

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-G8

<400> 13264

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caacaaatgc gttcattatt ccacaatgct cacttgctcc tagtgccatt attccacagt 180

tcctccctcc agttacttca atgggctttg aacaccagc tgtgcaagcc tacagggtac 240

aacaagcgct tgcggcgagc gtcttacaac aaccaattgc ccaattacaa caacaatcct 300

tggcacatct aaccatacaa accatcgcaa cgcaacagca acaacaattt ctaccaacac 360

tgagccaact agctgaggtg aaccctgtcg actacttgca acagcaattg cttgcatcca 420

accacttgc tctggcaaac atagttgcat accaacaaca acaacaat 468

<210> 13265

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-H10

<400> 13265

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caaggcggat gccaaaggccc gaggtgaggt gatcagcacc aagaggcagt ctgtgggacc 180

caaacctggc ttcattggtg aagggtgtac actcgagaca gtcactccta ttccttatga 240

tgtggtcaac gatctcaagg gcggttacta gagagaattt ttgtacctta agcagttcaa 300

acgagctggc aaacttatat gaatcttttt gataattggc tagttcttct gttctggtgt 360

tatgaactca tgtggctatt gctgttggcg tcaaaagatt tttattattg ccatggttga 420

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<210> 13266  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-042-Q1-K1-H12  
  
 <400> 13266  
  
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 gctgctctcc acttgggcaa gcttgggtgcc aagctgacca agctcaccaa gtctcaggcc 300  
 gactacatca gcgtgccgat cgatgggtccc tacaagcctg cccactaccg gtactaggca 360  
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 cct 423

<210> 13267  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-042-Q1-K1-H3  
  
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 gggcgccggt gccggccaag aagaagacgg ataaagtgc gaaccctcta ttcgagaaga 180  
 ggccgaagca gttcggcatc ggcggggctg tgccgcccaa gaaggacctg caccggttcg 240  
 tcaagtggcc caaggtcgtg cgtatccagc gacagcgccg catcctcaag cagcgctca 300  
 aggtaccacc ggcgtcaac cagttcacc gcaccctcga caagaacctc gctacgaacc 360  
 tgtttaagat gcttctcaag taccggcctg aagacaaggc tgccaagaag gagaggcttc 420  
 tgaagagggc ccaagctgag aatgaaagaa aa 452

<210> 13268



<211> 307  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-A1  
  
 <400> 13268  
  
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 tgggtccaaac tatctgatgc ttctgtgaa tgcacaaaaa tgtgcccacc acaataacca 240  
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 agacagcttg atcgaccggg agtacatgta ggcgcacagg agtaacaccc agatctacaa 240  
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<210> 13270  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-A3  
  
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cttccgaagg ccgccttcaa aaaccggtag aaccatactt tatcttccac cccctactac 120  
cacctgaaga agacgtccgc ttgctacctc tgcactgtca ctgtccccgt ctacagcacg 180  
ctgtacctga ccaacctgaa cgtcgcttcc tgcaacgacc tgccgatctc cttegcgcgcg 240  
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<210> 13271

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-B1

<400> 13271

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tgctcgcgat ttaccagaca cgacatcaca acccatagca tatctgctag gatagcacgt 180  
gacatggctc ttgttatctg cactcgcgat gagatgacac gaaactgtct caaagttcct 240  
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<210> 13272

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-B10

<400> 13272

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ccccaggaag gacatgacag gacaggacac gacacgacac ggcgccaaca tctcgggtaca 180  
attattcggt ccccatcag taccaccact agagcaaggc gatggagcag atagagcgag 240  
gcatgctatg ccatggccca tggcacgcgg ctgactgtct aactgactcg aacaaaacac 300  
agcaaacgac actgctagaa tattatatac tagctagagc ttattaatta gctagagaga 360  
taaagagtcc ttc 373

<210> 13273

<211> 435  
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 <400> 13273

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tgccgaatca ggggaccgtt gattacccca gttcaagct  cgtcacgctc ggcgatggtg  180
gaactggtaa aactacattht gtgaagaggc atctcactgg agagtttgag aagaaatatg  240
aaccaaccat tgggtgtggaa gttcatccgt tggatttcac cactaactgt ggtaagatca  300
ggttctactg ctgggatacc gcanggcaag agaagtttgg tggcctcagg gatggatact  360
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atggtcctac gtggc                                         435
  
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<210> 13274  
 <211> 427  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-C10  
  
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cgccgccgcc atcgtcggtc acgacggcag cgtttgggag cagtccgaga gcttccccga  180
gttaaagcct gaggaggttg ctggtatcat aaaggacttt gatgaacctg gtactcttgc  240
accaactggt cttttcgttg gaggtacaaa gtacatggtg atccaagggtg aacctggagt  300
tgtcatccga ggaaagaagg gcaactgggg cattactatc aagaaaaccg gcatgtcctt  360
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 tacgctatgc atgacttgct gggctctattc attgtctaata taaaatatg catttctaac 180  
 aatgttattg ttcttgtggc ttttctctga tttcttacgt ttcagaaaaa tagtttctgc 240  
 aatgtgggca atgacattgc ttagcttgta tgtagagtt catgtcacca tattaggtac 300  
 ccatctctac taggattttg cccagtgtac aaatgggtgca cagttacaag tacatctatg 360  
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<210> 13276  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-C9  
  
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 cttattttgta gtctgcatgc tccatgtccc ttggccttgg ggagagcacc ataagcgctt 180  
 catcgggtgct tgccatgcct atgggtctcgt caagaacaac cggcttcaga ggaatcgaaa 240  
 atgaccgtcc aaagtatgtc cttttaagaa ccaactgattg gagtaaccta tagctgatgg 300  
 taatatatag gtacacagga aaggctctttg tttttttatg ttgcctagcg gatggcagtg 360  
 aagttttttg ttgcttccag aggcgcaact gtttgttgtg atcgtagcta gctat 415

<210> 13277  
 <211> 403  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-D3

<400> 13277

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ttgcaaacat tcggctggag atgaactaca gccctgagaa gttcaagtta tcacagccgc 180  
ttatggaggt gcttgggggtg gaggtggaca ctctgtcacg ggtgattgct gccctctggc 240  
agtatattaa agcaaagaag cttcagaacc caaatgatcc ttccttcttc atgtgtgacc 300  
ctcaattgaa gaagggtgtt ggggaggaca agtcaagtt tgcaatgttg tcacagaaga 360  
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<210> 13278

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-D4

<400> 13278

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tagtgactaa gcttatattg tttgtgtttg cattcctcag ctggcagatt caatttggtt 180  
ccaacgttca ctgatactat gtgatattgt ggggtcaaatt ttccagggtt ttcttattac 240  
ctggttgagc gcttgaatct gtcaacagtt tatggatcat attgcattac agttagagat 300  
gtctgcgtgg gtcagcaaaa tcttggtgtt agtaaccttt tgagctgtga cataacttct 360  
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<210> 13279

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-D6

<400> 13279

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aacccatcat tgggtggtgcc ctctttttaga ttgcttatga gttatagttc aataataaag 180  
 tttttttgat gatgtttgtg gcttcccaga aataagaaaag tacatttcta a 231

<210> 13280  
 <211> 336  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-E1

<400> 13280

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 ggctgtagct tcttttagcct tattagactg ctaatacact catctgaatg atgtccagtt 180  
 ccatcaacaa ggctttaccg atactgtcga gtgactgatac aggatcatgt ttcttggttc 240  
 acgtcttgct tctgtgcatt tgcctaataa acccattcgt tgtaaacaag ccagttctaa 300  
 ctttaaaata aagggcctgt gcatggcgct ctaaaa 336

<210> 13281  
 <211> 186  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-E9

<400> 13281

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 acgctttcat cctatctcat agtctctcta tcgtctgacc taagttaa tcaatgacca 180  
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<210> 13282  
 <211> 213  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-G1

<400> 13282

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 cttacataca catacataca acatcataaa ctcttctata atatcaccta aattcaatta 180  
 actaaaccat atatttataa cataataact taa 213

<210> 13283  
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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 13283

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 ttcccttttg ttctgttggg taacaaagtt gatgtagatg gtggcaacag ccgcgtggta 180  
 tctgagaaaa aggcaaaggc atggtgtgct tccaaagggga acattccgta ctttgagacg 240  
 tctgctaagg acggaacgaa cgtggaagac gccttccagt gtatcgtgaa gaacgctctg 300  
 aagaatgagc cagaggaaga actgtatgtg ccagataccg tggacgtggg ggggtggcaac 360  
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<210> 13284  
 <211> 385  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-G4

<400> 13284

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 cagttcagac aagaacatgg cctgtgatcc ttcatggaca gcatgaatgc ctgttatcga 240  
 ggcacctgat cctgctttgc aggtgaatgc tcggaggcac ggaaccagaa acaggacttc 300  
 caccgtgaaa gctttagaag ctgatgcgtt tggacttctt ggaagcggga agcgtaaagg 360

tgacatgaag aacagggcga caagc

385

<210> 13285

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-G6

<400> 13285

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gttttagatca taccagagtt gtagacataa tgcgcaaggc tgggtcaattg catcttgtga 180  
aaccatatat ggttgcagtt cagagtaaca atgtctctgc tgtgaatgag gccttgaacg 240  
aactttatgt tgaagaggaa gactacgaga gactccgtga atcagttgat atgcatgaca 300  
actttgacca aataggtctt gccagaagc ttgagaagca tgaattgctg gagatgagga 360  
ggattgctgc ctacatttac aagaaggctg gcagggtggaa gc 402

<210> 13286

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-G8

<400> 13286

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cttcagctca ttctgcagca tcagccacat agaggacagc tagtggcgct gctggctgcy 180  
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gctgctggcg gacgtgaacc gactgaagaa actatgtgct gtactatagc cgttggctag 300  
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<210> 13287

<211> 301



<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-H6  
  
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 ttgtttc 427

<210> 13289  
 <211> 203  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-044-Q1-K1-A12

<400> 13289

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caacttgcta acgtaaacca ccc 203

<210> 13290

<211> 456

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 13290

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gagcggcata ggcgcggtgca tggcgctcac gaacttcac ctcacgggtg tgggggtggg 180

cgcggcggtg atgctgctgc ggaaagacgt caagcagtcg gccaccgtct tccgcgcgaa 240

cgtgcgccac atccgcaact ggctcgagga ggagtccgcc gccgccgtca aatctactga 300

acagtcttca gtgaaggagt tggagtccca agctgccaaag aaagacgctg tgcccaagga 360

cgacaaacat tagatgatct tacaccctgg ttcttgtaat gcgtnggcag tttgaggtcc 420

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<210> 13291

<211> 450

<212> DNA

<213> Zea mays

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<400> 13291

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tccgacccca gcctggagcc tgataacggc gctgtcgctc gccgggctgc ctccggctga 300  
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<210> 13292  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-B11

<400> 13292

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 ggtgtgcatg ttgttgttgg tacacctggt cgtgtgtttg atatgctgcg cagacagtcc 180  
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<210> 13293  
 <211> 454  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-B12

<400> 13293

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 acagacgtgc ctgatactgg attgctctgt gatcttcttt ggtctgatcc ttccaatgaa 240  
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tctgaatttc ttgagaagca tgatttggac cttatctgcc gagcacatca ggttgtcgaa 360  
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<210> 13294

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-B3

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 ataagcttag atacactagt acctgcaaag tttgacttca tgacacggcg tcaaggacac 180  
 tcagaggtct tgtaatcaat agatgctgct gtaaaacttg ggtatagccc tgttaaggtc 240  
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 agacacaagc ccatcaacgt tagatttatt gagtttatgc catttgatgg taatgttagg 360  
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<210> 13295

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-C2

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 ctctagaaaa ttcaaggatg agatcgctcc catgcccaaca aagatcgttg atcctaaaac 180  
 tggagaggag aaggaagttg tgatattagt tgatgatggg attaggccat ctacttacct 240  
 gctatatattt ttctgagcaa agtcgggttaa acttgtgatt ctttgtatgt tcaggtgccc 300  
 ggtgcgtggc tactcttcta aatgaaatga actgccgggg cagagactgc agaattggtg 360

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<210> 13296

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-C4

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actaccttgc tgagttctcc atctcctata agccgggtcaa gcatggcagg cccggtatcg 180

gtgccaccca ctctcgcggg tttattcctc tgaaatgagc tgttaccggg ctctgtagtc 240

tccaagagt cagttggcaa tgttcgttca gctttttctac ttgttttgaa caagttaa 300

gccaagata ttttgttttg ttccattcca gctcaagaat tcaaagctaa gcattgcaca 360

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<210> 13297

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-C6

<400> 13297

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gggcccattgg ggcaccgaga acgggacacg cttctgcatc accgcgcca tcggcagcag 120

cgtcgtggga ttctacggac gcgcgggaac caggctcgtc gacgctatcg gtgtctacct 180

gcgtcaactt tgatttcaac ggcattgatgc ttgatttcaa atagatatat taattagttc 240

ctcgtcacag tcgattcctgt gtcaaataat aaagaagctc ttgtatgcat gtgtatatgt 300

tagtccttcg ttctgtatgt gtcaaataaa ggttgatcaa aaagacctaa aaaacaaaaa 360

atacagctga gcatattaag acacgtataa taaagacgag atatatagaa caatgaat 418

<210> 13298

<211> 459

<212> DNA  
 <213> Zea mays  
  
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 aggcccatgg gttggcgccg gagatcccg aggatctcta cttcctcatt aagaaggccg 180  
 tggcgattag gaagcattct gaagagggaa ccaggaaagg accaaggact tccaaaattc 240  
 aagacctcaa ttctttgggt gaaaagccaa gaatccaacc ggctctggcc cggttcttcc 300  
 aggcgtacca agaagctccc acccacctgg aagtacgagt caaccacggc gagcactctg 360  
 gtggcctaag tgatatactc tgatggcttg gtcttttagca cctatgagct tgttctagat 420  
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<210> 13299  
 <211> 454  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-044-Q1-K1-D4  
  
 <400> 13299  
  
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 gaaagtgttg aatccaaaca tctacataac ggaaaacgga atggaccaac ctggaaactt 180  
 gacccgagac cagtacctgc gcgacgccac gaggggtgagg ttctacagga gctacatcgg 240  
 ccagctgaag aaggccatag accagggagc gaacgtgggt ggctacttcg cctggtctct 300  
 cctcgacaac ttcgagtggc tggcagggtg ctggtccaag ttgggcatcg tctacgtgga 360  
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<210> 13300  
 <211> 401  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-E5

<400> 13300

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tggtgcaaca attgttggtg caggtatgta ggtgcattgg ccacagcgag cgggctagat 180  
gaaagcagtt gttgctgttg taggtaggcg gcagggttca ccatggctag ttgactgagc 240  
gctggcagaa actgttgagc ctgttggttg ggctggtttg caactacgtt tgccagagca 300  
agtgggtttg atgcaagcaa ctgctgttgc aagtaggcgg cagggttcac catggctagg 360  
tggctcagtg ctggtaggaa ttgttggtgc tgttgcgttg c 401

<210> 13301

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-E8

<400> 13301

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cgcccgcggt tctgctttcc ttccttgccc cggtcacgag agaattttct ggagtcttcg 120  
actcgagcag ggttcgatg gcgctgcaat ggatgaccc tggcgtgcgtg gtggcggtgg 180  
aagctgcggt ggctgcgctg gtcacgctcc cgggtgcccc cgctgtgcgg ggccagatcg 240  
tcgcgctcac gtccttggtc ctgcagcccc tgtccagtgt gatacccttc ggcgcttcc 300  
agatcctcga tctctactgg aagaaggagc acagactgat gtgcacctcg gagatttgca 360  
ccgccgaaga gcgcattcgc ttcgagaaat ctatgtttaa agctcagaga aatgtc 416

<210> 13302

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-044-Q1-K1-F9

<400> 13302

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 cgcacaaccc gctcccagc tggcgctggt acgtgaccag ccggacctgc ggcatcgggc 180  
 cgcgcctccc gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg 240  
 cgtactgccg gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccggggcccg 300  
 acgcgcagct ggagggccgc ctagaggacc tgccgggctg cccgcgggag gtgcagaggg 360  
 gattcgccgn caccctcgtc acggaggccg agtgcaacct ggccaccatc agcggcgctc 420  
 ccgaatgccc 430

<210> 13303  
 <211> 116  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-044-Q1-K1-G12  
 <400> 13303

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<210> 13304  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-044-Q1-K1-G2  
 <400> 13304

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 aagaatgcca ccttcaacct tgcggggatg gaagcctgtt aacgtgtcaa ctctggatgt 120  
 gacctcaagg cctccgtgat gatgggagcg gacacctatg aaactgaaga agaagcttca 180  
 aagctactgt tagctgggaa ggtcccagtt ggaataggaa ggaacacaaa gataaggaac 240  
 tgtatcattg acatgaatgc taagattggg aagaacgtgg tgatcacaaa cagtaagggc 300

<210> 13305  
 <211> 185  
 <212> DNA



<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-H5

<400> 13305

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ggaaaataaaa aaaaaaaaaa aaaaaaaaaa aaaaaaggcc gcccggttcta gaggtcccag 120

gtttacgtac gcttgcacgc tacttcatag ctcttctatg gggtcaccta atttaaattg 180

attgc 185

<210> 13306

<211> 383

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-044-Q1-K1-H8

<400> 13306

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ggcggcgagg caaacgcagg cgaaggcgag ggtgtgaggg aaggagcacc agccatggtg 120

cacgtcaact tctaccgcaa ctatggtaag acgttcaaga aaccaaggcg tccttatgag 180

aaggagcgtc ttgatgctga actgaagctg gtcggtgagt atgggctgag gtgcaagcgt 240

gagctttgga ggggtccagta tgcactgagc aggatccgta atgctgcaag gcacttgctc 300

acccttgacg agaagaacct ncgtcgtatc tttgaggggtg aggcgcttct tcgccgcatg 360

aaccgctatg ggctgcttgc tga 383

<210> 13307

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-045-Q1-K1-A11

<400> 13307

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ttttgttttc aatttccatc ccaagaaaac ttgcgagggc taaaaagtgg gatgcgattt 120

gcctgggaaa tacagagtag ccttggaactc tgatgctctg gtcttcgggtg gacatggaag 180  
 agttggccac gacgtggatc acttcacgtc gcctgaaggg gtgccagggg tgcccgaaac 240  
 gaacttcaac aaccggccga actcggttcaa agtcctttct ccggcccgca cctgtgtggc 300  
 ttattaccgc gtgaacacat caggtgatga tgcacttacc aatgcattgg agatattcaa 360  
 tacatctagt ggagctcttc acttcattgc atctaacaat gactgtagtg gtagagagta 420  
 tgatatggaa ag 432

<210> 13308

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-A2

<400> 13308

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 aatgctcaca agctcctata gcttcccttt tcccccata ccttccatca attatagctt 180  
 cagtatgtga aaaccagct cttcaaccat ataggcttca acaagcaatc gcagcaagca 240  
 acataccttt atcgcccttg ttgtgtcaac aatcgccagc cctatctttg gtgcagtcac 300  
 tggtaaaac catcagggca caacagctgc agcaactcgt gctacctgtg atcaaccaag 360  
 tagctctggc aaacctttct acctactctt cgcaacaaca atatcttcca ttc 413

<210> 13309

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-B4

<400> 13309

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 cgtgcgaagc aaagcgctag ggccgttcgt actgtcccga tggccgcac gaagcagacg 120  
 gcgaggaagt cactggcgg caaggcgcca aggaagcagc tggccaccaa ggcggcgcgc 180  
 aagtctgccc cggcgaccgg cggagtgaag aagccccacc gtttccgccc cggcaccgtc 240

gcgctccggg agatccgcaa gtaccagaag agcacggagc tgctgatccg caagctgccg 300  
 ttccagcgcc tgggtgctga gatcgcccag gacttcaaga ccgacctccg cttccagagc 360  
 tccgccgtcg ccgcgctgca ggaggcgctc gaggcctacc tcgtcgggct cttcgaggac 420  
 accaacctct gcgccattca cg 442

<210> 13310

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-B6

<400> 13310

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 gtccaatctt gtctttggag atgcatctgt attcctactt ccttggaac gtctgtttgg 180  
 ggtgactgat tctcagattg acattgctat gagggaaaat gccagaatt tatactcggg 240  
 gcagctcaag tctattggaa gaggtcttga catatgcaca ctcatgaag taaggagagc 300  
 acaacttgca tataaactgt ctgatgagat tgctgctgag atgttccgtg agcacgcgaa 360  
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<210> 13311

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-C10

<400> 13311

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 aatgctgtgt attgagcgac acacggctct tgaagcatca tttattccct cccaaacctg 180  
 taaacttaac gtggttcatg ttgtgtacag tcagatacgt ccaactatgt aaacctaacg 240  
 cacgttggtc tgctgtgcta actaaactag agaggtagt aaagcagtac ttcgtatgta 300  
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<210> 13312  
<211> 179  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-C6

<400> 13312

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tctgacatcc aagggtgaaag atgtatacgt ctgcaacgtc tatgtagatg tacttaatt 179

<210> 13313  
<211> 439  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-D3

<400> 13313

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ttccccgtct ccttggtcct ggtctcaaca aggcaggcaa gttcccgacc ctggttactc 180  
accaggaatc cctcgagtcc aagggtgaacg agactaaggc aaccgtcaag ttccagctca 240  
agaaggctct ttgcatgggt gtcgccgtcg gcaacttggc gatggaggag aagcagatcc 300  
agcagaacat ccagatgagc gtcaacttcc ttgtttccct tctgaagaag aactggcaga 360  
atgtgagatg cctgtacgtc aagagcacca tggggaagcc atacagggtg ttctaagtat 420  
gctcttttgt gaagtctgc 439

<210> 13314  
<211> 417  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-045-Q1-K1-D4

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 agtatatttc ccggaacat gangaggata aggtgattgt gttcgaaaag ggagatttgg 180  
 tatttggtt caacttcac tgcaacaaca gctattttga ctaccgtatt ggttgtcgaa 240  
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 ggatccatca cgcagccgag cacttcaccg ccgactgttc gcatgataat aggccatatt 360  
 cattctcggg ttatacacca agcagaacat gtgtcgtcta tgctccagtg gaggat 417

<210> 13315

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-D8

<400> 13315

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 tccagggact ttctaatacag cctattataa tctgaagata aatcttgtat cacctgtccg 180  
 gtgaccata gtaatattat gttactcttg ctgtaagcag aggttaacac tagaaaaagt 240  
 attgtgattg gtctgaactt tttgtgcggg ataaagcatg tgattcagct caacttgact 300  
 tttccaactt taccgagcat atacaattgt gattaatata gaggctctta aggtgtttta 360  
 ataaccaatc caagcatgac aagcaaacc 389

<210> 13316

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-E1

<400> 13316

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 ttgctaacgc gacaattttc cctcaatgct cacaagctcc tatagcttcc ctttttcccc 180  
 cataccttcc atcaattata gcttcagtat gtgaaaaccc agctcttcaa ccatataggc 240

ttcaacaagc aatcgagca agcaacatac ctttatcgcc cttgttgtgt caacaatcgc 300  
cagccctatc tttggtgcag tcattggtac aaaccatcag ggcacaacag ctgcagcaac 360  
tcgtgctacc tgtgatcaac caagtagctc tggcaaacct ttctccctac tc 412

<210> 13317  
<211> 292  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-E3

<400> 13317

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ctttctaact gttcaatact cttgacattc tttgagtaaa ctttagatat cctctcatac 180  
attcattatc cagtacctga ttgtccattg tctctatatt ctttactgtg acattatatg 240  
gttgactcgc atttcccatt tatccagttt ctgttatact accattgott ct 292

<210> 13318  
<211> 420  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-F12

<400> 13318

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taaaaaaatg ttctgaatac gctgaaagat atttcaatga aactgcacaa gatgtggtag 180  
tacttgagtc agaaagcact gatgaatctg aagtttgca ctgtgagacc attgcttgca 240  
cattctctaa ccttgataat catgctggga aaattgaaac tccaggactg cacagaaagc 300  
ggctccctag agttttccct ggagatacaa ctactacaca tgacatcatc aagcttcattg 360  
ggaaagagaa actgccagta caatacctgc cacagaggag acgaaatggt gaaaaggaga 420

<210> 13319  
<211> 448

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-045-Q1-K1-F3  
  
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 ccgcatccg atatcacgct cggacctggc ggtcaccgag caggctcgtg tgcggctgcc 360  
 gccgttcccc taagtccg ccaccaatg ttctttgctc aaccatatta atctaaagat 420  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-045-Q1-K1-F5  
  
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 attcacttta atattatcaa aaa 203

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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-045-Q1-K1-F9  
  
 <400> 13321  
  
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 aataaaaaca tatcttcggg aaagagatca aaatggcaaa taccataacg aatctgaaaa 120

accacctaaa gctcgcacga tactacactc tcaaacatct ctaccaaact tgcgatgatct 180  
tctttgaagt ccacatttaa cagatcaata ttcattctaac tactttggac gatactctga 240  
tttgaactaa atgtattaac tgtaacatag caatctctga agacgtacaa cattgaaa 298

<210> 13322  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-045-Q1-K1-G8  
<400> 13322

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ctgtaagaga taatatggca tatttgagc 89

<210> 13323  
<211> 134  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-045-Q1-K1-H12  
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gttgttgggt tcgc 134

<210> 13324  
<211> 290  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-045-Q1-K1-H4  
<400> 13324

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cgatgccttg gacaagatca ggtttgagag tttgacggac aagaccaagc tggatgcaca 180  
gccagagctg ttcattccaca ttgtccccga caaggccaac aacacgctga caatcatcga 240



cagcggcatt ggtatgacca agtcagacct tgtgaacaac cttggtacca 290

<210> 13325

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-H5

<400> 13325

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accattttcc cgcaatgctc acaagctcct atagcttccc ttcttcccc gtacctctca 180

ccagcgggtgt cttcgggtatg tgaaaaccca attcttcaac cctacaggat ccaacaggca 240

atcgcagctg gcatcttacc tttatcacc ttgttctctc aacaatcctc agccctatta 300

cagcagttac ctttgggtgca tttattggca caaaacatca gggcacaaca actacaacaa 360

cttgtgctag caaaccttgc tgctactct cagcaacagc agtttcttcc attcaa 416

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-A11

<400> 13326

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agattgctga agctgggtcat ggtaagcggg agtaggagcg aacctgaat cgccccatga 180

gtgattgaag ttgttagaat cccttccgga gttatcaaca gatcattatg gaagcaagca 240

tatatggagc cgtattagtc agctgacagt tatttgggtga ttgtacaact gttcttgcaa 300

ttgtgtatag ctggttgaaa tttagttggt ctgttgctaa tctgttccaa atacgtagta 360

gattcggagg caatataaac tttcagcaga gcattactga gtttccccctc gcagaccact 420

gacgacaatg 430

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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-046-Q1-K1-A2  
  
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 aacaaaagga tatgcaaaca gcagcagttg aagtaggatg tacatattca ggggaatttg 180  
 acctgttact gtgcaccggg aatagctaca ctcatgaaa atcatgccac tggcttatac 240  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 acgtcgagtg gaccaacggc acctnctact tcttcgactc cgggtcctgc cgcaccatgc 180  
 gtttccccgt ggggatcctg ccgcctgact ggctcgccgc cggcgccgtc tatctcggcc 240  
 gcgagcacgt cgacggcttc gactgccacc tgtggaccaa ggtcgacttc gtctgggtact 300  
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 atgtgatgag ctttg 375

<210> 13329  
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gaggagaccg cctctgggtc gggctccgag gaggaggagg aggaggagga ggaggaggat 180

gatttgagga ccgtccactc accgtcttcc gtcgctccca agagcgtagc tccgatgccg 240

cataacgtcc aagagcccga agcgtccgac gaggatgagt atgacgatga agatgacgag 300

ccgtataagg tacaagaacc cgaaacgttc gatga 335

<210> 13330

<211> 430

<212> DNA

<213> Zea mays

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<400> 13330

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gctcctatag cttcccttct tccccgtac ctctcaccag cgggtgtcttc ggtatgtgaa 180

aaccaattc ttcaacccta taggatccaa caggcaatcg cagctggcat cttaccttta 240

tcacccttgt tctccaaca atcatcagcc ctattacagc agttaccttt ggtgcattta 300

ttggcaciaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgcc 360

tactctcagc aacaacagtt tcttccattc aaccaactag ctgcattgaa ctctgcttct 420

tatttgcaac 430

<210> 13331

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-E9

<400> 13331

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caacaaataa aaaataaaaa aaaaaaaaaa aaaggccacc ctttttaaag gttcaaagtt 180  
tacttcccct tacttccaac ttattacctt ttttataggg tcccctaaat taaattaatt 240  
gcccggttttt ttaaaactta ttaactggaa aaaccttggc tttaccaaat ttaatccctt 300  
ttaaaaaaat ccccttt 317

<210> 13332

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-F10

<400> 13332

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aagaagaaga tcaaggctgc cgtcaagaag atgtatgaca tccaggcaaa gaaggccaac 180  
accttgatca ggcctgatgg gaagaagaag gcttacgtga agctgactcc cgactatgat 240  
gctcttgatg tggccaacaa aatcggcata atctaagtgc tgcattaggc atcctagttc 300  
atctgttgtg tcttagttct atgtgaaacc agagttttgt agctatggct ctcaatcggt 360  
ccattaccat gtgttatgca cacttctgaa tttgatatca tccaagtgac cttttgaact 420  
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<210> 13333

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-G4

<400> 13333

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ttagcggcga cgatcgagtt ctcatgcgcg acgcgtgagt cggcccggga attcaggacc 180  
ggcacatgct ggcgtacaag ctgtccctat tgtgagacgt attagctcac tgtttaattc 240  
agttcaagtc ttatgtgtat cttgccttgc tatccgagta ataatactga ggatgtggta 300

gtcatgatat atgtttattc tctgttggtt cctatcttat gcaattattc ataagagatg 360  
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 <212> DNA  
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<223> unsure at all n locations  
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 agaacatgtg agctccgggt atctattgcc tttgttttgt taagccattg agtcaagctg 180  
 caattcttaa tgaccatttt acttcaatcc cgttttcttc agttctgtgt ttgttctgac 240  
 taacgatttg tattcaatgt ttttttctgt ctttctctaaa actcttaaag gcaagaaaaa 300  
 attgcacaag gaaaaacaca agtctcgatc tgaaaggcct caccgccaat ctaatatcac 360  
 cgaactggat aaaggcaaaa aacgacctgc acaa 394

<210> 13335  
 <211> 158  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-H1

<400> 13335

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 actgtgactt gttaaactctg tatgcttatt cccaaaaa 158

<210> 13336  
 <211> 140  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-H3

<400> 13336

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acctgaagga acaaagatat 140

<210> 13337  
<211> 386  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-046-Q1-K1-H5  
<400> 13337

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cattattccc caatgctcac ttgctcctag tgccattatt ccacagttcc tccctccagt 180  
tacttcaatg ggcttcgaac acccagctgt gcaagcctac aggctacaac aagcgcttgc 240  
ggcgagcgtc ttacaacaac caattgcccc attacaacaa caatccttgg cacatctaac 300  
catacaaacc atcgcaacgc aacagcaaca acaatttcta ccagcactaa gccaaactagc 360  
tgtggtgaac cctgtcgctt acttgc 386

<210> 13338  
<211> 451  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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cctgttctta gccctctcct ttgtagcagc tatgtttgcc ataggctctc atgctgatgg 180  
agactgtgag aatgacctcc aaagcctgat aagtgactgc aagacatacg tgatgttccc 240  
agctaatacca aaggctccctc cttcggatgc ttgctgtggt gtcataaaga aggcaaacgt 300  
ttcttgcttg tgctccaagg tcaccaaaga aactgagaag gttgtgtgca tggagaaagt 360

tgtgtatgtt gctgagcagt gtaagaggcc atttgagcat ggcttccagt gcggaagcta 420  
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<210> 13339  
 <211> 413  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-H9

<400> 13339

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 ctatggcggg gaaccagctg cgccacgcca caccgggct cggcatcgcc atcgtcgcct 180  
 tcgggatcta cctcgtcggc gaggccgcct acaaccgcct ctaccgcccc tccggcgaca 240  
 accaccacta gatcgccggc aggatccgtg actcgggtcaa gaagctggag ccaactttac 300  
 caagcactgg tgctgttgat gtttttacag ttttgagctc ataaggtcag ccatgaccat 360  
 attgtaatct gtgaccaggt agacttgccc actggtccgt ccaactattg tct 413

<210> 13340  
 <211> 424  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-A2

<400> 13340

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 gggacgagag cggcctcgtg aggggcgtgc tcacagcgggt ccgagagcgg gccgaggccg 240  
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 cggagttcac tagggtgctc aaatcgaagc ggcaggttgt gaccgggacc ctgcatgacc 360  
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 agcc 424

<210> 13341  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-047-Q1-K1-B4  
  
 <400> 13341  
  
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 aacacaagga ctactgctgg ctataacaaa cgccctagtac agtggctgca gaccatgcac 180  
 ccggtgatga acgaatgcac ctttctccag aagcagcact gtctgtactg ctacttggga 240  
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 cttactgaca aagctatgag gtcctaaga gctgatgaac cctatgatga tcttgccctgc 360  
 tcgtgtacac aaatgcgctc acttgctgtg tacgacaaga catcttttgg atactgcgcc 420  
 ttgaatcatg taccagggat t 441

<210> 13342  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-047-Q1-K1-B8  
  
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 gactaccaga accaatgcct tgcattaaac caactgactg acatgaactc tgctgctcat 180  
 atacaacagc aacagctacc accattcagc cagctagctg atatgatcca tgtcgccttc 240  
 ttgacacaac aacattatgc tacaatctac ctacacgctg ctccctaactc tcacacccta 300  
 taacaactgc tgcagtatct gccattcaac caacttgcta tgacaaaccc tacaactttc 360  
 taccaacatc cgatcattga cggatcccta attaatatcg tatacaagta atagctcact 420  
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<210> 13343



<211> 420  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-047-Q1-K1-D10  
  
 <400> 13343  
  
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 cctcctcaac gtccgaggcg ccctcacgac cgtgggatgc gtggcctcca tcgccttcct 300  
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 <211> 322  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-047-Q1-K1-D7  
  
 <400> 13344  
  
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 ggaatcacag tccatattaa gacaatacac tacaaaggct acaccttaca accgataaat 240  
 ggcggacgta ctagacgatc caagctaact taccctgca tgcaacatcg taggccagtt 300  
 aatatgccac ctaaagtga tc 322

<210> 13345  
 <211> 377  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-047-Q1-K1-E1  
  
 <400> 13345

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 acgaagacaa gactgactgc agcgcaagtga ggagctgaag ctgagctcta atcctcgcg 180  
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 gacacgtgat acagagatct cgcagaagca gaagtcggcg ttgcgggagg cgtacaagat 300  
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<210> 13346

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-E11

<400> 13346

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 attggccgtg gttttaaaac gtagttactg aaaaatccct gctactacca aactttgtgg 180  
 cttgggtgtt aattctgctt tcgccagctt tcctattacc tacttggccc catctgactg 240  
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<210> 13347

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-E3

<400> 13347

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 catttggtgg cattttaccc acaagttgtg ggaaacatta atggcttttt gcaacagcaa 180  
 caattggtac cattctaccc acagaatgtg gcaaacaatt gtgccttctt acaacaacaa 240  
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accattggtg gtgccatctt ctgattttt tatgatttat actgtaataa taaagttctc 360  
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<210> 13348  
<211> 420  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-E7

<400> 13348

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gccacgagca ccgatgctgg aggcagtgcc tggcgcagtt tatgagggga tctgcttcag 180  
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gtatggagag gcgcatgacg ttgtccctgc accgagtga gagctcacga gagatggatc 300  
ctcctactgg tgtggacttc tttgaccatc tactctatct agtagtaata catactacag 360  
cgcccacaaa ttttgtgagt ggatgatata tgatcttttag attatacaga caaactcaat 420

<210> 13349  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-E9

<400> 13349

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gaataaggca acgtcgagga gtcctaaagc cggactccag ttccccgcct gcaggattgc 180  
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cgccgccatc ctctagtacc tcgcggctga cgttctcgaa cttgccggaa acgccgagag 300  
ggacaacaag aagaccgcga ttgtgccgag ccacatgcag cttgctgtgc tcaacgacga 360  
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tccatcagca tctgctgccc aaga 444

<210> 13350  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-F4

<400> 13350

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attacaaata atcataaagc aacaacgaat ttgcgtaatg cttcatcgat cctatctgcy 180
tatatcaata caaaccatta taacagcgat accaaacgtc attaaatacc ttcaactgat 240
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gatttgctgt agccctcggt tacattaacg agcaacttct tcaacataca caccttctaa 360
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tttcatctaa t 431
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<210> 13351  
 <211> 86  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-G10

<400> 13351

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agtgtacgaa caacggcacc caaaat 86
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<210> 13352  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-G3

<400> 13352

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tccccctcaac catgaagaca ggcttggggc ccaacggctg cctcttgggtg ctgatgacct 180  
cgccgcgctc ctttgtatgc gccttcagct ggtcattgat ctttaagggag gattctaggt 240  
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agac 304

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<211> 426  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-048-Q1-K1-A10

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actgat 426

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<211> 454  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-A11

<400> 13354

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gtcctgtgac agcgacgccc aacgctgctt gtggattcca agaaagcagc tatggcgtgg 180  
tggaggtgga gctcgtcttg cctgacagcc ccttcgcgcc cccaccaag gaggaggcct 240  
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ctcgccatgt ggcccttttc gcacccgcgt cttccaccac cctcgagctg cccccctaca 360  
gctcctcctg cttctttcat gtgccaggt tttctcctgg gcatgaagcc attgggctgt 420  
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<210> 13355  
<211> 485  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-048-Q1-K1-A8  
<400> 13355

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acttctactg gggatatggag ctgtaccctc agatgggcga gtactttgat atcaaagtat 120  
tcaccaactg tcgtttcagt atgatgtcct gcgctgttct tgccgtaacc tattgcataa 180  
agcagtatga aatgaatggc agagttgctg attctatgct tgagaatact gcacttatgt 240  
tgatctatat cactaagttc ttttgttggg aatctgcata ttggtgtact atggacattg 300  
ctcatgatag acctggtttc tatatctgct ggagatcctt ggtatgggtc ccatccatat 360  
atacttcctt tgaaatgtac ctggtaaacc cctttttgaa tttggcccc aagttaccac 420  
tttaaactct cttacctgga ttgtgggtcca tatecttaaa ctatgatggt aaccttaaac 480  
cccaa 485

<210> 13356  
<211> 402  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-048-Q1-K1-A9  
<400> 13356

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gagccaagat ttttgcctc cttgcctcc ttgctctttc agcaagcgct gctacctga 120  
cttttattcc acaatgctca caacaatacc tctctccggt gacagccgcg ggatttcaat 180  
acccaactat acaatcctac atggtacaag aggccatcca agcaagcatc ttacgggtcat 240  
tagcattaac cctccaacaa ccatatgctc tattgcaaca gccatcctta gtgcatctgt 300

atctccaaag aatcgcgga caacaactac aacaacagtt gctaccaaca atcaatcaag 360  
tagttgcagc gaaccttgct gctaactcc agcaccacca gt 402

<210> 13357  
<211> 446  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-048-Q1-K1-B3

<400> 13357

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agcggcaccg gagagctagc cgcggcctcc aggctcgagg ggatctgaac tagtgccgct 120  
gccaatcgc gccgacgact gagggcgcca ctctcatat cccatttcca tcaactcgttt 180  
ctccatttcc caccttctta aacgccactt aaaagagaaa ggagagcatc gcagtggcac 240  
acgcgcaatg gaaggctcgc cggtgacgcg cctnccggag gctaactccc tccccgacgg 300  
cttcgttctt gactctgaga gccctggcac ggacgcgagc tttcccttct ccgcgccccat 360  
cgttgatgat gcgctcaact ccgatatccc cggcgcgacc aaccangcn gcgaggaaac 420  
cctaaacgat ccnccctcc ctgcgt 446

<210> 13358  
<211> 467  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-B8

<400> 13358

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ccctccttat gtccttgct ctttctgcat gtgttgctaa cgcgacaatt ttctctcaat 180  
gctcacaagc tcctatagct tcccttcttc ccccatacct tccatcaatg atagcttcag 240  
tatgtgaaaa ccagctctt cagccctata ggctccaaca agcaatcgca gcaagcaaca 300  
tacctttatc acccttggtg tttcaacaat cgcagccct atctttggtg cagtcattgg 360

tacaaacccat caaggcacia gaacttgcac aactcgtgct accttgtatc aaccaataa 420  
ctttggcaaa cctttcttcc taatcttaac aaccaccatt tctttca 467

<210> 13359  
<211> 190  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-C11

<400> 13359

aaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaagagt 60  
aaaaataaaa acaaggggtcg gccgttcatt aggttccaag cttacttccc cttacttgcc 120  
acgtcttaac ttttctatac cttcacctac attaaattaa ctgtcactta gttcttacia 180  
cgatcacatt 190

<210> 13360  
<211> 267  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-C5

<400> 13360

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tttgaacaaa cttgtttttt ttgcgaaaga aaaaaaaaaa aaaatagaaa aaaaaaaaaa 120  
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaacia aaaaaaaatt 180  
aaaaaaaaa aaaaaaaaaa aaaaagtcaa ccattaaaaa tattcaaaat ttacatacca 240  
ataaattcaa cgtaaaaatt ttttaaa 267

<210> 13361  
<211> 329  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-C7

<400> 13361

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tctatcttcg gttcgactac gggttcgtga ggttgcgggc gggttcacac tcgtggatga 120  
 ccggatctac atgtcacctt ctgatgttga ttaccgctga ttattctact gcctcatctg 180  
 agccacggac taccactccc tacacaacgc cttcatcacc tacagagatg tcctcgagtc 240  
 caaaatcatt cctgatcggg agacgcatag gtacctctgc ttcggctctc acaacttttc 300  
 cacagaagaa gccatgcgta accccatcg 329

<210> 13362  
 <211> 60  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-C9

<400> 13362

aaaaaaaaa aaaaaaaaaa aaaaaaaata aaaaaaaaaa aaaaaaaaaa aaaaaagaag 60

<210> 13363  
 <211> 277  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-D8

<400> 13363

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 cccgcaacgg ttgccccac ccgtgccaca cactggggga agttcaccg gggacggagc 180  
 acgccatgcc acgcagcagc acagctacgc tgctgtcagc ctctcctcc ggcagcccg 240  
 tagatctgca gctcgggcgg agccttcacg ggggcta 277

<210> 13364  
 <211> 209  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-E1

<400> 13364

cacgcgtgcg taccagtga agtctattac tgatgattgg ttttcttctt tatcaaagt 60

gttcatgatg attgagttgc tgaacttgaa atactgcaac aagatcactt atactgattt 120  
 gggtcaccta tactccctgt atgatctcac aaaccttta ctgacatgct tgttcctctt 180  
 aacaagcatt gagatctcct caatttcaa 209

<210> 13365  
 <211> 187  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-E3

<400> 13365

cttagcagga agcgctgggc acctcagttt tgtgtagaca aaatctaggc atcgataaat 60  
 gatgggggac tatgcatggt gttttggcag cactgttcag taccttgctt tctaaatctg 120  
 gtttttgggtg tgtgtgtgta agctaataaa tgctcaggca ggattgtagg aacaccattg 180  
 atcaaaa 187

<210> 13366  
 <211> 197  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-E4

<400> 13366

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 attgagtac tgaacttgtg ttactgcaac aagatcactg atactggttt tgggtcacct 120  
 aagctccctt gaagaaccta caaaccttta acttaagtgc ttggtccccg taacaagcat 180  
 tgggaatctc ttaattg 197

<210> 13367  
 <211> 473  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-F2

<400> 13367

cctctccgga attccgggtc gacgcaggcg tccgcccacg cgtccgccc cgcgtccgcc 60

cacgcgtccg aggggtttccg cgtcggctag tttggacgca tggctgctgc aggagagtag 120  
agaccacagc gcgcgaggcg aggagaataa gctatgggcg cgccgaagca gaaatggacg 180  
tcggaagagg aggatgcgct ccgcgccggc gtgcgcaagc acggcgccgg caaatggcgg 240  
accatccaga aggaccccg gttcagcccg gtctctact accgctccaa catcgacctc 300  
aaggacaaat ggaagaattt aagtttcagt gcaagtggac tgggaatcaa ataactgtcg 360  
gttccaaaga taactggacc cttatcttcc ccatcattta actcgcaacc tttggttttt 420  
ccaacgggaa acaaatttac tggagcttca ctggctgcat atgctgagaa aaa 473

<210> 13368  
<211> 293  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-F5

<400> 13368

agctgtatcc ccgagattcc ttaaccagcg cgaaccaata tactgttgcg tgttctcctg 60  
caagtgagat gttctgcacc tatgtttgta atgttgatt tctgggtttt taagctatcc 120  
aacttggaga tacaaccggt gaggaagcag caacaatagg tagttctact tctgagttag 180  
gaaaaacaac ttgcggctga gttaatgaag cttagtagct accaccgttg tatgacagtt 240  
gctcagaaat gttatcttca ttaatggcta atataaccgt tagttccttg tga 293

<210> 13369  
<211> 384  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-F6

<400> 13369

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gttgctgttg tgatagaccc catccagagt ggggaatggga aggtggttat tgatgcattc 120  
cgcctcatta atcctcagac catgatgctt ggccaggagc cacgtcagac aacatcaaata 180  
gttgggcacc taaataagcc atctattcag gctcttatcc atgggctgaa tagacactac 240  
tactcaattg caatcaatta ccggaaaaat gaacttgagg agaaaatgct gttgaacttg 300

cacaaaaaga aatggaccga ttggctaatt ttgaaaaagg ttgaccctca ctgaaaaacc 360  
aacgagcaaa ctgtccatga aatg 384

<210> 13370  
<211> 374  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-048-Q1-K1-F7  
  
<400> 13370

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tcttatcctt ggaacaggaa ctactgatgc tgttggttaag atttgggacg tgaaggctca 120  
gtcaaatgtc gcaaagtttg agggatcatgt cggaccagtc actgctatgt ctttctctga 180  
aaatggttac ttcctagcga ctgctgctca tgatgggtgtt aagctttggg atcttcgtaa 240  
attaagaaat tttaggactt tctctcccta tgatttggac acgccaacca atactgtgaa 300  
at ttgatttt agtggaaact atcttgccat tgggtggttca gatataaggg tctaccaagt 360  
acctaattgtt aagg 374

<210> 13371  
<211> 464  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-048-Q1-K1-F8  
  
<400> 13371

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ttttattaac cacacctctg gcaaggagta caagctgagg ccaattggtg atgctggccc 120  
tgtaattgag gcgggagga tctttgccta cgcccgaag acaggaatga ttgcgtcgaa 180  
agctgctgca tgagggaag atcagcttat gcagccgagc ctctgcggag atgaagaagt 240  
aagctggagt taggactaag agttactgca cctacttgat gtcgacggtg tctcaaaata 300  
aattgggggc ctaacaaatt attatgaatc aattaatttg ggctttggca aaaaatcggt 360  
ttttttggta actagacctg gaccaatgga cctctggctt gttacggtcc taaccggttg 420  
aattacctgt ctggtggcca aaaaaaaaaa taattttaat agat 464

<210> 13372  
 <211> 248  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-048-Q1-K1-G1  
  
 <400> 13372  
  
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 gcagcacaat acctaccatc aatgtgcggc tggtagcact catactacca aaataatcca 120  
 tgcagcagca atgacattag tgggtgttgc aattgaagaa ttgtgtctac ctagccgtta 180  
 tactcctata acggtgttaa gcaataaagt accatacatt aaaaaaaaaa aaaacaataa 240  
 taataatt 248

<210> 13373  
 <211> 451  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-048-Q1-K1-G4  
  
 <400> 13373  
  
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 aacatcaatg gcttccaaga cattatccct ccttgcgctt ggtgcccttt ttgtgagtgc 120  
 aacaaatgcg ttcattattc cacaatgctc acttgcctcg agtgccatta ttccacagtt 180  
 cctccctcca gttacttcaa tgggcttcga acaccagct atacaagcct atagtctaca 240  
 acatgcgctt gaagctagcg tcttagaaca acctattgcc caattacaac aacaatcctt 300  
 ggcatatcta accttacaac ccatcgaacc gcaccaacac caaccactaa cccactaacc 360  
 cttgttgaac ctaatggctt actgccacca ccacttgttt gattccaacc aatttccttt 420  
 gccaacctaa cttgcaacca accaccacca c 451

<210> 13374  
 <211> 350  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-048-Q1-K1-G7

<400> 13374

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ttgcaacagc agttgcttgc atcaaaccga cttgctctgg caaacgtagt tgcaaaccag 180  
ccacaacaac agctgcaaca gtttctgcca gcgctcagtc aactagccat ggtgaaccct 240  
gccgcctacc tacaacagca acaactgctt tcattctagcc cgctcgctgt ggccaatgca 300  
cctacatacc tgcaacaaca attgttgcaa cagattgtac cagctctgac 350

<210> 13375

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-H1

<400> 13375

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accagcacca ggtccgtgtt gagatcgagt ccctctttga cgggaccgat ttctcgagc 180  
cgctgacccg tgccaggttt gaggagctga acaacgacct cttccgcaag accatgggcc 240  
ctgtcaagaa ggccatggag gatgctggcc ttgagaagag ccagatccac gagatcgctc 300  
tggttggtgg aagcaccagg attccaagg tccagcagct cctgcgggac tacttc 356

<210> 13376

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-H11

<400> 13376

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ggacagtaaa attccatctc tcagatctct caatgagata aggtctcctg aaggaaggcc 120  
tccctcttcc atgttatcag cctgcagcaa cgacttgtca gcagcaggat cctatggtga 180  
gtcatccgat ggttggtcaa tgcgcacatt ttctgaaatg gtctcaacat cccaaagaga 240

gagggtgggtca cttgacagtg agctcttggg atccatttct agtaaaatga caagatcaag 300  
 tgcttcgagt tctactacac gccccctga ccaagacgtg tgcaagctgt gtttaaagct 360  
 gctaaaggag agatcgacat ggaacgcgca ggagctggct gttgttgctg ttttgttgctg 420  
 tggacat 427

<210> 13377  
 <211> 212  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-048-Q1-K1-H2

<400> 13377

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 atagaaatcc ancacactat gaaggcacgt tcattatata actttacgat gaacatgacc 120  
 aactactact gcacaaacac atctaccatc ttctacatat ctctcctatt catcacctac 180  
 actgcctatt tcaacacctt tccagtgaac tt 212

<210> 13378  
 <211> 366  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-A5

<400> 13378

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 cagatcgccg tgctgatcgc ggcgcatatc gggcagcagc tgactgcat gtacgacctg 180  
 cagcagctga ctttatgcc ctaccctgct gccggccata tactccactg tagaaactat 240  
 ttgctgtact ataacgctg gctagcttgc tagtttaatc atttagcggc gatgatcgag 300  
 gaataatgta gcatgcatca cgcgtgggtg gcagtgtcag ctgaagcaaa gtccttaatg 360  
 aacaat 366

<210> 13379  
 <211> 379

<212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-049-Q1-K1-B1  
 <400> 13379

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 acaaagcaac agacatcgat gatgtagaca agaccatgga tgaaattaat gaacagactg 120  
 aaaatatgaa acaaattcag gatgctttgt caggctctct cggagcttct gctgatttct 180  
 atgaggatga actggaagcc gaacttgaag aactggaggg agcagagttg gaatctcagc 240  
 ttctggagcc tgttgcagct tctacggtgc atccagtgc tgccccagcc aacaagcaac 300  
 cagcgcgcac tgctccacag aaagctacag ctgaagatga tgagcttgct gcactgcang 360  
 ctgaaatggc attgtgatc 379

<210> 13380  
 <211> 471  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-049-Q1-K1-B9  
 <400> 13380

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 gctatgagga aggcgagcag ttcgcaaagg aacatggtct tatcttcatg gaggcctctg 180  
 caaagaccgc gcagaatgtc gaggaggcat ttgttaagac tgctggagca atctacaaga 240  
 aaatccaaga tggcgttttc gatgtatcta atgagtctta tgggatcaaa gttggatatg 300  
 tagtccctgg ccaatctgga ggtgctggta gctcttctca aggtggtggc tgctgcagct 360  
 aatctgctaa cgcccttatg tacaaaggca tatctgcggt gtagctgcgt tatctctatg 420  
 ttgctgagcg taaaatagtt actgctccag ggtgctttgn tatttgatgc a 471

<210> 13381  
 <211> 408  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3059-049-Q1-K1-C1

<400> 13381

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ctggatctgc tgctatgaaa gcaatgcaca aagcaacaga catcgatgat gtagacaaga 120  
ccatggatga aattaatgaa cagactgaaa atatgaaaca aattcaggat gctgtgtcag 180  
gtcatctcgg agcttctgat gatttctatt acgatgaact ggaagccgaa cttgctagaa 240  
ctgcagggag cagagctgga atctcagcta ctggagcctg atgcaacttc tacggtacat 300  
ccagtgcattg ctgcagtcta caagcaacca tgcgcgcact gcttcacaga aagctacaga 360  
tgtagatgat cagcttgctg cactgcaagc tgaaatggca tagtgatc 408

<210> 13382

<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-049-Q1-K1-C10

<400> 13382

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tacaatattc cctcaccctg cacggagctg tggcaacgtg taccgcggct gccgcacggc 120  
ctgacgacga tgataggcgc cggcgggctg gacccctacg cggagtacct gaagcaaadc 180  
gcatggcacc ccgttggccg ctgagcgcta ctacgacctg agtggccaga cgagcgccat 240  
gtaccagccg gtccggcaac agtgctgcca tcaccagatg aagatgatgg acgtgcaatc 300  
cgtattgcat caactgcaga tgatgatgca gctcgagcgt gccgctgcct tcagaaacat 360  
gctgaaccag ccagctctaa tgcagcagcc ccagcagctg gcggcagatc acggtctcaa 420  
ccgcatggcc atgatgatgg cccat 445

<210> 13383

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-C11

<400> 13383

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acacagtcaa tttggtggta tgattatgcc atcgcaacga aagaaagagc aagaagagtc 180

tccactggct aatgtaacac gagatagctc caaaatcaca gctgaacagg ttcacggcct 240

catgtcacag gtcatagaag acatcctttt caactctgtt caccctcaa gcaaggcaag 300

cacaagtgct ccaccagatt catccggtcc tgagcctatg gttgaagcct gagttccagc 360

ggaaggggac aatggatatt tgtgttatgt tatctgattc agaaggtgca aaacaagtta 420

tcttttgagt acagaatcat catgtaatta tga 453

<210> 13384

<211> 157

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-049-Q1-K1-C9

<400> 13384

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gcaaattgcc tggccctgcc ccgggctgga aggcttgtac cgggcttgcc cccggcttaa 120

aacaataatg gccccgccg gcttgaacct taacctg 157

<210> 13385

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-D12

<400> 13385

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tggtggaggc agccaaaagc agcctgggaa tgttaagtct aattaaccat ggcaccactc 120

tctgttattc cattagccaa attgggagcg agaagtccaa tcagttggag atggacagtg 180

tgatcccttt acctgagggt tatatttact ttgcattca cggttcatat gaaggacaca 240

ttctcatatt tggatagca tttagtgaag acgcatgctt cgcaacttgag atcaagacta 300

tgaagattga gagagtctgt cggaagtggc gtggtttctg tccttatttt gtgttcctgc 360  
catccatgtc acaaaggagg atataatgtg gactgaattc acatccaggt ttggggcttc 420  
ttccaatcca ttctgctggg gtggagtga gctagggtga 459

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-E1

<400> 13386

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aacagcccta tatatcggtt tgtactgact acttctctat taatgtatat atctgcacac 180  
tgtactaaac gagccgtgcc gctgccattg ccgcaaacga tgtacagaca ttagctgcta 240  
acttgccaag ctatgattac gaacatgaga tatccaacat acgtcgataa caggatgacg 300  
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<210> 13387  
<211> 263  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-E6

<400> 13387

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aaaaatttaa aaaaacggga aaaaattttt aaaaaaaaca agaaaaaaa aacatttttt 120  
tgaaaaagg gggaaattta agtgctttta aaaatggccc cgaaaaatga aaaaaatgga 180  
cctaaaaacc tttttgcaaa aaacaaaaa ttttttagga aaattttcaa aaggggcaaa 240  
atgttaaatt gaaaaggga taa 263

<210> 13388  
<211> 252

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-049-Q1-K1-E9  
  
 <400> 13388  
  
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 ggttgatttc agtttaggat ttgaatgatg ctgggttaaa caatgacttg gctggcatta 120  
 ggtattaact aatgctaatt aacctgccaa aaaaaaaaaa ttcaagaaat taaacggctt 180  
 tacataaaat taccacaaac aaaaggacaa agaaaaaaaa aggggcggcc gtttttagagg 240  
 atccaagttt ac 252

<210> 13389  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-049-Q1-K1-F6  
  
 <400> 13389  
  
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 atgctccttg gtctttctgc aagtgtgct accgcgacca ttttcccgca atgctcacia 120  
 gctcctatag cttcccttct tccccgtac ctctcaccag cgggtgtcttc ggtatgtgaa 180  
 aaccaattc ttcaacccta taggatccaa caggcaatcg cagctggcat cttaccttta 240  
 tcacccttgt tctccaaca atcatcagcc ctattacagc agttaccttt ggtgcattta 300  
 ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgcc 360  
 tactctcagc aacagcagtt tcttccattc aaccaactag ctgcatngaa ctctgctgct 420  
 tatttgcaac aac 433

<210> 13390  
 <211> 93  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-049-Q1-K1-F9  
  
 <400> 13390

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gtttttttgc caaaattcca aagggccctt ttt 93

<210> 13391  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-G12

<400> 13391

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atgctccttg gtctttctgc aagtgtgct acggcgacca ttttcccaca atgctcacia 120  
gtcctatag cttcccttct tccccgtac ctctcaccia cgggtgtcttc ggtatgtgaa 180  
aacccaattc ttcaacccta caggatccaa caggcaatcg cagctggcat cttaccttta 240  
tcacccttgt tcctccaaca atcatcagcc ctattacagc agttaccttt ggtgcattta 300  
ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgcc 360  
tactctcagc aacagcagtt tcttccattc aaccaactag ctgcattgaa ctctgcttct 420  
tatttgcaac aac 433

<210> 13392  
<211> 435  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-049-Q1-K1-G3

<400> 13392

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gcaactgtca gtcagtgatg ttgtaactgg tcctctacag acattcaatg gcatagagaa 120  
ggtcggccat atagttcatg tcttaaagac aactggccac aacggtttcc ctgtggttga 180  
tgagccacca ttttcagata cccctacatt gtatggctta attcttcgag accacctgct 240  
tgttctattg aggaagaagg atttcatccg tagttgcaca gcgtctacac tgaatgcttt 300  
aaaccatttc tcacatgctg agtttgctaa acgtggatca ggaaaacatg acaggattga 360  
ggacattgaa ttatgtccag aagaactgga aatgtttgta gacttgcac cattcacaaa 420

cacatctnca tatac

435

<210> 13393

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-H4

<400> 13393

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gaacattgat ggggaatcat tatcgaggaa tgaattagat tttcaaagga gaatggattc 120  
agcaagggaa cacatgttgg ggttatcagc tgactcagaa taccaggata atcaagccaa 180  
tcctgatgtc caagatcgta gatcacaaaag tcttgagagct aacagaaatt ctgatgtcag 240  
cttatctttg aaagaccacg tccaaggttc agggcacgat atgagaaggg acagtgatgt 300  
gactgtgagt ggtaaacaag ttgagcaagt gcaatctatt tctgatttag agaagaaagg 360  
aactgcggaa ctctcaatg aagatgactt gaacaaaaaa ttccaggagt acccgtttct 420  
gtttgcccggt gctggtgatc tgacta 446

<210> 13394

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-A4

<400> 13394

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cgatccgcac tatctccagc ctatcgcgga tggctaccaa gatctcatcg ctccgtacac 120  
taactgacct tctaaccagc tcagctcatg cgatcatgat tccacagacc tcaattactc 180  
ctaaagccag gattgcacag atcctgacac cacttacaga aatgggctct taacatgcag 240  
acttgctagc actcctccta ctactagcac ttgcgatgct cgccctacaa ctaccattg 300  
tcaaacacag tcatctatgc ttgacacact gaccatacca ccaatgcaac acaacatcaa 360  
ccacagccac tgcattcaag actgatccac ctacacgca 399

<210> 13395  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-A7

<400> 13395

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 tcaggctact ttgtctagca tgtttataag ggcagaagaa aaaaagagat ctacaaggag 180  
 tcctaaaggg tccctgcaa ccaaaggtgc tgctgctaag aagcagcgag caagtccaat 240  
 ggcaaaacag ccagcagga tcaagaaggt tagcggaact cggggaaaga aaaaaccaa 300  
 ggtgggagaa gatgaaatcg aagagctctc aagttcctcc caggataacg acgcagatga 360  
 tgatagtac gaggactggg ccgaataatg cgttggtaca tacggcagat aggttgggga 420  
 agcatatg 428

<210> 13396  
 <211> 412  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-B11

<400> 13396

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 ccctgtctgt ggtagagaca ttcttgggga tcttaagctc aaagagtgtg ttaaagccca 120  
 cactaactgg cctacatttc cacaatatatt tatcaaagga gagtttgttg gggggtctga 180  
 catcatatta agcttgcacc agaaggggtga gcttaaggat cttcttgggg atattgcaca 240  
 aagagacgaa caaaaagtgc atgctcacga ttcataagc aatcaacagt aggttctttt 300  
 actatgcgct atctactctg ccactaaaat gttctatctc ggagtcttta ggcgacagcg 360  
 tacgtgacat tgtgaactgt ccctacgcat tggacatgga tgaccgatg tg 412

<210> 13397  
 <211> 346  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-C2

<400> 13397

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aaaaaaaaaa aaaaaaaaaaag gaaagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaatcaaca 180  
taaaaaaaaaa aaaactaaaaa caaaaaaaaaa aaaaaaaacaa caaaaaaatcg actcaaaaat 240  
aataaaaaaaa aattttaacct tccaaaaaaa aaaataaaac taaaaactgc tataactaaa 300  
atgacttaac caacatatac caatcacata aatactgtac aacttt 346

<210> 13398

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-C8

<400> 13398

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ttgagctcgt cagcatagtt caccatgatg ataaaaaaaa gagaaagaag tttggagtag 120  
ttttacatgt ggaaacaaaa ctgcttgtaa gaagagagaa tgtgcagccc cagagtgtga 180  
gcaattttac atgcttgagt gtacaggggt ttggagtagt cttggacttg cttattttga 240  
ggcatgtatt gcagtcatag gttacttctg ctcaaaaaaa aatacaaaac atgaaagaaa 300  
aaaaaaatat aaacaaacat g 321

<210> 13399

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-C9

<400> 13399

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ccttgatata tggtgacctt tatggtatct gcaaagaagc atccaccata tatagggcta 120  
ctcttcgtta cgaagggtttt agtgagatta tggtaacctt ttccaaaact gggttctttg 180



atgctgcaaa tcatccactg ctgcaagata ctagtcgtcc aacataaag ggtttccttg 240  
atgaactact gaataatatt tccacaatta acacggactt agatattgaa gcctctggtg 300  
gatacgatga tgacctgatt gccagactgt tgaagctcgg gtgttgcaaa aataaggaaa 360  
tagctgttaa gacagtcaaa accatcaagt tcttgggact acatgaagag actcaaatac 420  
ctaagggttg ttcgagccca tttgatgtg 449

<210> 13400  
<211> 269  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D2

<400> 13400  
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ccgcacgatc ttggttcaga tcaaagggtg gggcatataa gatcctgttg tcatgaaatc 120  
caagatccat ggaacgctgc tcttcacccc atgtcactat gccagcgctc aaccgtacat 180  
acacgaggcc aggctatcac aagggtgtcc gtaatctcag cactttggca tgtgattgta 240  
cacttgta caagaggtgat gcgcgatga 269

<210> 13401  
<211> 414  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D3

<400> 13401  
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cgatggcggc cgagccggag aagcaggcgg ccccgcggc acaggagacg gccgtgcaca 120  
tcgtgtacgt tgaccgcccc gaggacgccc accctgagga gttccacatc cgcaccctca 180  
ccccgtcct cggcagcgaa cagaaggcca gggacgcagt gctctaccac tacaagaacg 240  
ccgtcagcgg cttctccgcg aagctcacc cccagcaggt caaggatctc aaggagcaac 300  
caggtgttct ccaggttgtg ccgagccaga cttaccagct acatggctct gggctctggca 360  
ctcaccaggg cagcacacac accttgggcc ttatgtgaag gcgtatgaga atca 414

<210> 13402  
<211> 406  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-E3

<400> 13402

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ttttgaaggg acctgtggat ggccgtgagg cttcagccag atgcaaattc aattatcaac 120  
gatgaagctc ccgccgtggt gtttgttaat aagttcctgt aagcatatca tttagtcgct 180  
atgcatgaca ctagctgaag cgctatctaa gctctattgg tatgaggttt ggttgccgtg 240  
ttgccgagcc tgtaaacgaa gcaagatttg caaacttggt atattgtggt attgatgata 300  
ctggattact ggctgtgggt tgttcaaaaa acaaccatac tcatttggtg tacctgatcc 360  
ctactttttt gggagaaagg ttcaacgttt tgggtgcatga taaaat 406

<210> 13403  
<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-E8

<400> 13403

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gactcctttt tgatcttctt gtgatggtag ccatgatggg gcctattgat gagagccctg 120  
ccttcctatt gtatcaggat tgtgctctgt gcttaatat cttgaaaata tcgactagac 180  
tgtttatgct ggatcagatg gcacctttgg ttgatgaaag ctggagggtca aagtttgaga 240  
gagttagaga cgatgacttc tcccgtttta agggctctgt ggtcctccat gaaattataa 300  
tgccgatcgt gaccaagctg cttactgctc tctgtgtccc atacgtcctt gcaaggagca 360  
tcttcccggt actgggttac ccactcatcg tgaactcatc ggtgtaccgt tttgcct 417

<210> 13404  
<211> 255  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-G12

<400> 13404

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tcgtacgtgt gttcgtgtcc gtccgtgctc gtgctgtgta ctctgtgtgtg tgtgtgtgtg 180  
tgtgaaacgc cagcgcgtgc tgcttctgct gcgtcgttat tacctgcgtg tcaaataaat 240  
tctttttttt gtccc 255

<210> 13405

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-G2

<400> 13405

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tcatggcaac tgggaatggg tgatatgtca ggtagtttt ggctaactta accacgggtg 180  
gggttaacaa caccaacatg ctagaggagg aagcggatac agaaacattt tctgaggggc 240  
ttcttttctt tgagtcatgt ttttagtttt gattcctgcg cgtggctagc tccttttggg 300  
ttttgaatga gatgtgtagt ggtgattatt ggggcgcata ttttagagat cgtggttctt 360  
ccaacataag ctggaaaaag aagtctgtat acggatgaac atgtatacca a 411

<210> 13406

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-G8

<400> 13406

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tctcaaattc ctctgcctc atccccgcca gggcaaagcc gccctatcgt cctgtcgtga 120  
gaagcaatgg cgggccgtgg caaggcgatt ggcgctggtg ccgctaagaa ggcaacgtct 180

aggagctcca aggctgggct gcagtttccc gtcggcagga tcgctcgggt cctcaaggcc 240  
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 tacctcgccg ctgaggctct ggagcttgct gggaacgcat cgagggataa caagaagacc 360  
 cgcacgtgc cgtgtcacat ccagctcgcc gtgcgcaacg acgaggagct gaccaagctg 420  
 cttggtggtg ccaccatcg gag 443

<210> 13407  
 <211> 224  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-H12

<400> 13407  
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 tcggtggtgc catcttctag atttattatt acagtataaa tcataaagtt ctcatgctga 180  
 tatgtgtgac ctctcagtaa taaagtatta gagatctata tttt 224

<210> 13408  
 <211> 371  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-052-Q1-K1-H2

<400> 13408  
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 cgtggattcc aaagaagatg gtcattggatt ggaaccttgc tgaaaatgtt caagaataac 180  
 cgcctttcca gaagattctt gaacataaac taacaataat tgggtataaa ccgcttctaa 240  
 cacggtgcta atctaaccg tttcacatgg aatcggaag tctcgtggc tcaccacagt 300  
 tgtacgtgag atgagtcaa ctggcaaact gcaacttgat gtggtatata taaaagtga 360  
 gtttcagctc a 371

<210> 13409  
 <211> 98  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-052-Q1-K1-H4  
  
 <400> 13409  
  
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 aatggtagcg gtcaaataga gtcacctaga ttcaattg 98

<210> 13410  
 <211> 366  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-053-Q1-K1-B3  
  
 <400> 13410  
  
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 cggaatgaag taacaaacac actaaacaaa tcccaggaag tggatcatcc cacttccgtg 120  
  
 tatgtacata accgatgcct cagtgtacat aactgggagc agagccgaca aacgccgcta 180  
  
 gatatgttac gcccccaacg attattgcgg aatatctcac aaggattatt gcagaacatc 240  
  
 tcacatggct cacagggcaa acctggtagg tcttgggctc ttggcaatcc atggcaacgc 300  
  
 tgaaactgca caaacgatga ggaacaggtg gtctagtcct tgtagacaag aggcttgttg 360  
  
 acccat 366

<210> 13411  
 <211> 167  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-053-Q1-K1-C2  
  
 <400> 13411  
  
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 tctgaagaaa taccacaaca tggatgccat caatgtaagc tactcat 167

<210> 13412  
 <211> 527  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-053-Q1-K1-D10

<400> 13412  
  
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 atnntgaggc nnttcgaact aaagtactga atatcagact acttacgtag gacctnnagt 180  
 atgttagtat ggcacattcg tgaagaaggt tcattggggc tacttagctg tattaactct 240  
 acttcggtat agtgttctag agtccaagaa aagggtgcatt gaactttgga tcatgggttat 300  
 gagattgagc tggactttgt tattgcagca cagtacanaa tgcttgacgt aggttggttat 360  
 attctgatgg caactccaca agtaagctga gtgtatgcct tcttaatata atagactttt 420  
 ggtgagacca aggttaaattc ttgtactg cattgggaca aagagcaagc ttcagaaatg 480  
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<210> 13413  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-053-Q1-K1-E6

<400> 13413  
  
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 gccatctttt caggagatca aggatacatt gggtttcaac cgctattata aagaagagaa 180  
 acaataccaa gtggacaagt gaaggaagca gctgaagtct gatcctgtgg attcagtcgg 240  
 atcgtggcca tggcttaatt tccaccggac atgctgggct tccaccggac atgatgcaga 300  
 ccaatcgtat ttatgttgag ttgtaatcga acgctgcgta gcgcagtatc ccgaagaaca 360  
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<210> 13414  
 <211> 417  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-053-Q1-K1-E8  
  
 <400> 13414  
  
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 aagtgttgct accgcaacca ttttcccaca atgctcacia gtcctatag ctccccttct 180  
 tccccatac ctctcaccag cgggtgtctt agtgtgtgaa aaccaattg ttcaacccta 240  
 caggatccaa caggcaatcg caacaggcat cttaccatta tcacccttgt tcctccaaca 300  
 accgtcagcc ctattacaag agttacctt ggtccatttg gtggcacata acatcagggc 360  
 acaacaacta caacaacttg tgctagcaaa ccttgctgca tactctcagc aacatca 417

<210> 13415  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-053-Q1-K1-F2  
  
 <400> 13415  
  
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 ttgaggcttc gaacaaatac aatatcgaca ctactggact agtatgttgt tggccatcgg 120  
 aagaggttct tgctactac tgtattaacc actcggatgt gttcagggtcc aagaaagtgc 180  
 ttgaacttgg atctggttat ggattggctg gacttggtat tgcagccagt acaaagtctg 240  
 acgaggttgt tatttctgat ggcaaccac aagtagctga gtgtatcctt cttaataataa 300  
 tagacttttg gtgagaccaa ggttaaactt ttgatactgc atttggacia aagagcaagc 360  
 ttcagaaatg tggaatactt ttgacatcat tgttgcaagt gactgcacat ttt 413

<210> 13416  
 <211> 430  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations

<223> Clone ID: LIB3059-053-Q1-K1-F4

<400> 13416

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cgtctcttgc cgtggggctg ctctcggggc ttgcgcagag gacgggaccg acgcctggaa 120  
ccaccggatc ggcggcatct ctctcagtct cgtcgccgat ttccctcggg ttcaacccca 180  
cctccttctt cccgttcttg cagacagcga ggtgggtccc gtgcagcgac cttgccacct 240  
cgtcgtcttc ggcaccctct tcccctcccc gctcgttggc gccttcgggt cccccaaga 300  
aggcgttgat tgggtgcttct gctggttcta ccggaattgc gacgagcagt ggtgctggtg 360  
cagcgatgag caggagcaac tggctgtcga ggtgggtcag ctctgctcc gatgaccca 420  
agacggcggt 430

<210> 13417

<211> 121

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-H4

<400> 13417

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tgagtttttt ggatgatgtt ggtggcgtcc cagaaataag aaagtacatt tctagattct 120  
t 121

<210> 13418

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-A7

<400> 13418

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aatcctgta aacgtcagca agggatggat gttcttaaac atccgaattg tcagccttta 120  
taagtcataa tatgtaagca gaactttttc gtactctatc gttttgaaat aataaatttc 180  
attaatgact attaaataat tataaaatta ttttaattatt aattattata attaatttaa 240



tatatatttaa attatataat atatatttata ttttatattt tttcttattt tttttatggg 300  
 ttttttattt tttttttttt ttttttttat ttattattat aatttttttt ttatttttta 360  
 tttttttatt ttttttatta tttctttttt tatattttta atatatttta tatctttttt 420  
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<210> 13419  
 <211> 349  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-054-Q1-K1-A8  
 <400> 13419

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 gtggctgaca acgccgggat gttggcaggc ggcatacagg acgtgccggc gaacgagaac 180  
 gacctccagc tccaggagct cgcgcgcttc gccgtcaatg agcacaacca aaaggccaat 240  
 gctcttctgg ggttcgagaa gcttgtgaag gccaagacac aagttgttgc tggcacgatg 300  
 tactatctca ctattgaagt gaaggatggc gtagtcaaga agctttatg 349

<210> 13420  
 <211> 277  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-054-Q1-K1-B1  
 <400> 13420

cccacgcagt ccgcgcactc gtccgaaaaa aaaaaaaaaa ataaaaaaaa aaaaaaaaaa 60  
 aaaaaaaaaa agaaaagata aaaaaaaaaa aaagaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa 180  
 aaaaaaaaaa aaaaataaaa aaaaaaaaaa aattaaaaaa aaattaaaat aaaatcaaaa 240  
 taaacatatt taaaaaaaaa tatataaatt ataaaat 277

<210> 13421  
 <211> 221

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-054-Q1-K1-B12  
 <400> 13421  
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 gcgatgattg agtaataatg tgtcacgcat caccatgggt ggcagtgtca gtgtgagcaa 120  
 tgacctgaat gaacaattga aatgaaaaga aaatagtatt gttccaaatt aaatattttt 180  
 ttatatttaa aaagggcgtc cgatctagag tgatccaagc t 221

<210> 13422  
 <211> 396  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-054-Q1-K1-B6  
 <400> 13422  
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 aactaactaa aggagaatac ttaataatag ggcggaacat ttatacaaaa cacctatccc 120  
 gagcacacgc aagggaaccg tagacaggca agtgaaatcc aatccacgaa ataaattgat 180  
 ccatggacgg caccgttggt gtaaagggtc taatgccaga ggaatcatta ccgcaaggca 240  
 tagaggggga ggtcataagc gcctataccg taaaatcgat tttcgacgga atcaaaaaga 300  
 catatctggt agaatcataa ccatagaata cgacccta atcgaaatgc atcaattgtct 360  
 catacactat ggggatggtg agaagagata tatttt 396

<210> 13423  
 <211> 328  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 13423  
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gtattttctgc aagtgtgtgt acggcgacca ttttcccgca atgttcacaa gctcctatag 180  
cttcccttct tccccgtac ctctcaccag cggtgtcttc ggtatgtgaa aaccaattc 240  
ttcaacccta caggatccaa caggcaatct catctggcat cttaccttta tcacccttgt 300  
tccttcaaca tatcatcaac cctattac 328

<210> 13424

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-D10

<400> 13424

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aaaaaaaaa aaaaaaaag aaatttttaa attctaaaga taacaaacac atacatacaa 120  
aaaaaaaaa aaaaatataa aataaccaa ataaaatata tataaacaac tttaaacaac 180  
attttttact tttaaaaccc ttccaatact atatctaaat tatctttatt atcacatcct 240  
cttttctcat ttttccttaa 260

<210> 13425

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-D2

<400> 13425

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acctcacaac cgtgagctcg cgaaggagcg ctgttcgcaa ttccggcgcc ggcaccatga 120  
gtaagctgca gagtgattct ctgaggagcg cgattgctc aattaccaat gattcccgtg 180  
agaagcagcg caaatttatt gaaaccattg agctacaaat tggactgaag aactatgacc 240  
ctcaaaagga caagcgcttc agcggttctg ttaagctgcc tcacatccct cgcctaaga 300  
tgaacgtatg catgcttgat gatgctcagc atgttga 337

<210> 13426

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-E7

<400> 13426

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accaagatat tagccctcct tgcgcttctt gcccttttag tgagcgcaac aaatgcgttc 120

attattccac agtgtcact tgctcctagt gccagtattc cacagttcct cccaccagtt 180

acttcaatgg gcttcgaaca tccagccgtg caagcctaca ggctacaact agcgcttgcg 240

gcgagcgctt tacaacaacc aattgcccac ttgcaacaac aatccttggc acatctaacc 300

ctacaaacca ttgcaacgca acaacaacaa caacagtttc tgccatcact gagccaccta 360

gccgtggtga accctgtcac ctacttgcaa cagcagctgc ttgcatccaa cccaatttgc 420

<210> 13427

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-F10

<400> 13427

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agctacctgt tgctaccag cgctttttct tccattcaac caactaacat cattgaactc 120

tcctgcttat ttacagcatc aacaactact accattcatc cagctatctg ctgtgagccc 180

tgctaccttc ttgacacaac cacatttggt gcctttctac catcacgctg cgcctaacgc 240

tgtcaccctc ttacaactgc aacaattgct gccattcaac caacttgctt tgacaaacct 300

atcatttttc taccaacaac ccatcattgt ttttgcctc ttttatattt cttattattt 360

atatttcatt attaaagttt ttt 383

<210> 13428

<211> 539

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-054-Q1-K1-F5

<400> 13428

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tnnnatttgt gtgagttgtg actagtggag cccttgctga gctgtggtgg ccgttgtatg 120  
cncntagatt gacgttcgcg tgtattttct gttnngaatta nntgaaatnc atgtgcnnt 180  
tgcctgttgn nctgttttng aaaacctgtg tgcagtggtc gagcccagca tttgtgcctt 240  
aagtgtnnct tttcaatttc aatctgtttg aaacctgtg ttgagtggca tagtcatgca 300  
gctctgtgcc ctaatgtcca tgtgctatca tcatgaagcc aggctaagcc aacaaagccg 360  
tgcccttgca ttcacagaag ccaacaagca accagctcgt gccagatgaa gaagcagcaa 420  
gctcgaacct taacttttaa agtgccttat agttttcaac ttttcagttt ttgtttggtt 480  
ttacttgtg gaatgctttt taaccgtgtg caactatggc cacattgtga tgtggttta 539

<210> 13429  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-G7

<400> 13429 .

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ccaccaagtg ctactgctcc ttcgtaggga gacgtgggaa taaagagtgg tagctgcatg 120  
cgcgtagggc ggccatggct ctccgatgag agagctagct gtgtacgtgt gttcgtgatg 180  
ttgttccatg catgacatgt atacgtattg cctaattacg cttgaactag ttgagagact 240  
gtgcaagttt attgttctat ttattatata attatatagt actcttttta tgggggtgtg 300  
ttattttttt tattttttta tttttttta tttatttttt attttattta tattttttat 360  
tattttattt tttttatttt atctttttat tttattattt tattatttta tttttttata 420  
atttttta 428

<210> 13430  
<211> 389  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-A11

<400> 13430

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 taaggaacga agagtttggc cagaagcaac atgctctgag acagctataa acatctggat 180  
 tgtaatgact actattcttc cagacttcat agacattttc ataggaatta ctctttccat 240  
 tccagaaaac aggacgtata aatttttcac gaatattagt gcaggtatcg atgctcagtg 300  
 ataaaataat gtataagtgg tgtgcaaatt tttctcgatc aaaatattat tttattatct 360  
 ttatttttat tttttttttt tttttttttt 389

<210> 13431  
 <211> 65  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-055-Q1-K1-A12  
 <400> 13431

gacccacgcg tcctgagaaa catctcaacc aacatcatat aattcacaat actacaccaa 60  
 ctact 65

<210> 13432  
 <211> 366  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-055-Q1-K1-B11  
 <400> 13432

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 tccgccaccg ccaattccat gccgttctcc gccacggctg ctgagagcga gaagagatgg 120  
 caggcaaggg tgatgggccc gcaatcggca tcgatctcgg cacgacgtac tcttgcgctg 180  
 gcgtctggca gcacgaccgt gtcgagatca tcgccaacga ccagggtaac cgcaccacac 240  
 cctcgtacgt cgccttcacc gactccgagc gcctcatcgg agatgcggcc aagaaccagg 300  
 tcgccatgaa cgggaggagc accgtctttg atgccaagca tctcattggc aggaggttta 360  
 gtgatg 366

<210> 13433  
<211> 354  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-B7

<400> 13433

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aataatgtcc caagcttgtc tactataaat attttgcttc cttatcctcc taactctttc 120  
tccacatggt tctactgcaa ccattttacc acaatgctca caagctccta taacttcctt 180  
tcttccccca tacctctcac catcattgtc ttcaatttct aaaatcccaa ttcttcaacc 240  
ctacatgatc caacaatcaa ttccaacatt catctttacc attatcacc ttaatccttc 300  
aacaaccttc atccctatta cttcaattac ttttttttca ttttttttct catt 354

<210> 13434  
<211> 480  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-C5

<400> 13434

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ccatgcatcg atccatggca ggggacgtca agtgcgagca gccgaagcgg acgccgagcc 120  
cgagcgcttc gtctctgagg atcttcggct acgacgtggc tggctcgggt atcgccgtcc 180  
gcatcatcga gccttcgcct catgacgatt gccggccgtc cgtggtggac agtatgcgca 240  
tgtttgagtt tctgttttgt tgtcttgtgt tcttttatct ttattttctt tttttttatt 300  
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<210> 13435  
<211> 363  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-C9

<400> 13435

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actactgatg ccattggcta ccatgaaccc atggatgcag tactgcatga agcaacaggg 180

ggttgccaac ttgctagcgt ggccgaccct gatgctgcag caactgttgg cctcaccgct 240

tcagccgtgc cagatgccaa tgatgatgcc aggtatgatg ccaccgatga caatgatgcc 300

gatgccgaat atgatgccat ctatgatggt gccgactatg atgtcaccaa taacgatagc 360

tag 363

<210> 13436

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-D3

<400> 13436

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aaaaaaaaaa agaaggataa aaaaaaaaaa agagcaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaacaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaacaac ccaact 195

<210> 13437

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-E2

<400> 13437

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tgctgcagcag atgatccgtg aggccgatgt tgacggcgac tgccagatca actactagga 120

gttcgtcaag gtcattgatg ccaagtgagg agcgatcccc gttatctatg aatgaattga 180

agtgaatat caggcacaca agctgtactt tgccatgttc cttttgagta cacattatta 240

tcattgcatga tgtcttgtct agtaatttat caacttacta ctttttttat ggggggattt 300



ttttcttact gaactcttct ttttattttg tatcttttat tactattttc tattttttct 360  
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<210> 13438  
<211> 453  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-E4

<400> 13438

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catcagccct attacaacag ttacgtttgg tgcatttatt ggcacaaaac atcagggcac 120  
aacaactaca acaacttggt ctagcaaacc ttgctgcta ctctcagcaa cagcagtttc 180  
ttccattcaa ccaactaggt tcattgaact ctgcttctta tttgcaaca caaactac 240  
cattcagcca gctacctgct gctaccccc agcaatttct tccattcaac caactagcag 300  
cattgaactc tcttgcttat ttacagcagc aacaactact accattcagc cagctagctg 360  
gtgtgagccc tgctaccttc ttgacacaac cacagttggt gccgttctac cagcacgttg 420  
cgcctaacgc tggcaccttc ttacaactgc aac 453

<210> 13439  
<211> 458  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-E6

<400> 13439

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aaagtagata aacctactat cgataccagt gttgacaaat ttgtaaatga cgtgttcgag 180  
atcatctccc cattgttctt gtctgaggca ttgaagaaat tggacattaa gaaggaagat 240  
ctttctttga tcttagaagg cctcatggga cgggcagatc cagatttgaa gagtatagct 300  
atgactttga agaatgggtg gtatactctt tagttttcac tgctattata attctatgct 360  
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458

<210> 13440

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-F12

<400> 13440

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tttgcataga tggcgctcct agctctttgt acatccgccca ctagtgcgac ccatatccca 120

gggcacttgt caccactact gataccattg gctaccatga acccatcgat gcagtactgc 180

atgcagcaac acgtgggttg ccacttgcta gcctagccga ccctgatgct gcacaaactg 240

ctggcctaac cgcttcagcc atgccagatg ccaatcatga tgccaggat gatgccaccg 300

atgac 305

<210> 13441

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-F3

<400> 13441

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tagcatcaac agagcaacaa tggcgaccag gatgttttcc ctccttatgc tccttgctct 120

ttctgcatgt gttgctaacg cgacaatttt ccttcaatgc tcacaagctc ctatagcttc 180

ccttcttccc ccataccttc catcaatgat agcttcagta tgtgaaaacc cagctcttca 240

gccctatagg ctccaacaag caatcgcagc aagcaacata cttttatcac ccttggtggt 300

tcaacaatcg ccagccctat ctttggtgca gtcattggta caaacatca tggcacagca 360

gctgcagcaa ctctgtgtac ctgtgatcaa ccaagtagct c 401

<210> 13442

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-F7

<400> 13442

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ggagctcaag tactgctcgt tttattacaa attctgtcgg cacaccattt ctatcatcac 120  
caactattta atattcatca actctcatca aattctatca acatttttct taatcttttt 180  
atcttatctt tttttcattt tttatttatt ttttttttat cttaatatat ttttttttta 240  
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<210> 13443

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-F9

<400> 13443

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ttccctgttt gtgttcatta tagttttatt tatatttatt tgccgggtgt gcgctgattt 180  
ttgttttaca tttactctat tttttttact gttttttatt ttcttttttt tatgattatt 240  
tctttctttt tttttacttt tttttttttt aattttttta tctttttttt tttttttttt 300  
ttattttttt ttttgggggg gttttttttt tttttttttt attttttttt atttttttta 360  
tttattttta tattattttt tatttctctt tttatttttt tttttttttt ttttattttt 420  
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<210> 13444

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-055-Q1-K1-G4

<400> 13444

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tttcaggcac anataatgct tgaaagggtg acaccacaga tgatgcacat ggcaaagagc 120  
 caacagccct cgggctcctt atcacaatct tcatctcacc tcaatgagcc atatccacag 180  
 acagatgcta tgattccgct agtctcaaga ccttcaagtt tgccaactaa cataccaccg 240  
 aacccaactg tcttacagga acaaactgca aactacata gtattcctca gcatcaacat 300  
 gcatcccagc ccttagtcaa aatgtttcca catggacatc agtctgggat cgccgcacaa 360  
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<210> 13445

<211> 481

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-G5

<400> 13445

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 acaatatttt tttattttat atttaataat ttaatttatt tcaatattat atattttatt 180  
 ttttatattt tttattatta tatatttttt attttatttt ttatttttat ttttatattt 240  
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 attttttttt ttttattttt tatttttatt ttttgtaaat attaattatt ttatttttaa 360  
 ttattattta taatatatta tttttttatt ttattatatt aatttttttt tttattttta 420  
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<210> 13446

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-G7

<400> 13446

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ttctttcttcc tagatttggt gctagttttt ggcgtgttcag cattttaccgc cgggtgtcttt 180  
gatgaattgg tgggttggct tccttttgag gattctccga cattgggtggc cgattttttt 240  
ttttactact ctctttttgc tcctttttct ttatctcttt attttgggggt gtttttcttt 300  
atctgtttcg tttttttatt tttttgttat tttttttttt attttttttt ttattttttt 360  
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ttttt 425

<210> 13447

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-H12

<400> 13447

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cattattata cccatcggca accgcaacca accaaccaaa tgaccgtgat ccaacctaac 120  
cgtgggtgaa ccctatcgcc tacttgcaac aacagctgct tgcattcaac ccacttgctt 180  
tggcaaacgt agctgcatac caacaacaac aacagttgca acagtttcta ccagcgtca 240  
gtcaactagc catggtgaac cctatcgctt acctacaaca gcaacaactt ctttcattcta 300  
gcccgcctgc ttttggcatt gcacctacat acctgcaaca ac 342

<210> 13448

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-H4

<400> 13448

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gtcaagctgg tgaaggcgtc ctgtgctgaa cacaatgttc accttgtcac tgttcctgct 180  
gctaagactc ttggcgagtg ggctgggctt tgcaagattg actcctaggt caaggcaagg 240  
aagggtgtat gctgcttctg tgttcgtttc aatgtctact gtttaattatt ttatggtctt 300

aacattgtgc ttgagttttt ttattcttta ttttatttta ttttttttat ttttatcttt 360  
tatttttgta ttaggtctaa atatattttt ttattttttt tttttttctt tttttttttt 420  
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<210> 13449

<211> 207

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-A11

<400> 13449

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tcttacatca tcaaccatgc ttgccctaga gccagctcgt tgtgccagaa tcaccgcaca 180  
tttcatgaca tcccattata gctagtt 207

<210> 13450

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-B1

<400> 13450

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ttctaagtac tcagccagtg gtatttactg gttgacctac tgtagtttgc gtcggaatag 120  
atgtgttttt ttactcttcg tggggcagtt ttgtactggt ggattcataa ggactctgat 180  
tatgggtgcgt tcggaactta taataataag cacatgaaat ttgcttcaa aaaaatacta 240  
ccattcaaac agat 254

<210> 13451

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-C6

<400> 13451

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 gcatgcatct gtggcccacg agacaatata aacagtgcc ttcacttggt agaggaaaca 120  
 ttttattcaa aaggacagat taaaattgca gacacaggaa ggatgcatgt catgaaagtt 180  
 tttgaaagtc attgaat 197

<210> 13452  
 <211> 383  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-D3

<400> 13452

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 agggcctgtg aggaccagat cgcaaagctg aagaagagga gcgtggcgaa ggattcaaaa 180  
 gaagaacctg tcgtggggcg ctgcatgctg gagaatggcc gaggcgttag caacggaata 240  
 gctgcgacaa gcgaccctgc caaatgcagc tgtactcgta cgtagcatgt ggagcgaaac 300  
 gaaacggaat atattttctg gtgggtacaa tttggtctgc aagggtttta aagcgtggat 360  
 ctaaagatgt ccagatggaa acc 383

<210> 13453  
 <211> 384  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-D4

<400> 13453

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 aaggctcctg gaggaccaga tcgcagagct gaagaggagg agcgtggcga aggattcata 180  
 agagaacctg tcgtggggcg ctgcatgcc gagaatggcc gaggcgttag cagcgagta 240  
 gctgcgacaa gcgaccctgt caaatgcagc tgtactcgta cgtagcatgt ggagcgaaac 300  
 gaaacggaat atattttctg gcgggtacaa tttggtctgc aagggttcta aggcgtggat 360

ctaaagatgt ccagatggaa acct

384

<210> 13454

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-D7

<400> 13454

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gccttcgatg attatcttga tgctacagga tcagggatga aggcattcact cagcacaata 120  
gggatgcaca gaccaagatc ggatgtatct cgatcgaact tagtcatatg gctacagtct 180  
aaacccaacc atgagataga tatggctacg tgctaagcac taatgatgaa ttatagctgc 240  
tgaacaccta tgtgcatgag attctataac atgttcttgc gaaagatgaa aatctgtaga 300  
tcaatcaagc tgaatgtaaa aagtcgaagc atgaccaatg ctagtgctaa tgacacagct 360  
attgcatcaa cattcaggag agttgcacag attatataga ctgtgcatag gtccaatgct 420  
tattggacga ctgagtgcc a gactatgat 449

<210> 13455

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-F9

<400> 13455

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gcgatggcta gaggtgtggt gtgagcgaag ggcggcacgg ccgcgggcaa gaagaagggg 120  
tcggtcgctt tcacgatcga ctgcaccaag cccgtggagg acaagatcat ggagatcgcc 180  
tcgctcgaga agttcctgca ggagcgcac aaggtcgccg gcggcaaggc cggctacctc 240  
tgcgaaatccg tcatcatctc ccgcgagaag accaaggtca ccgtcacctg cgactggccc 300  
ttctccaaga ggtatctgaa gtacttgacc aagaagtact tgaagaagca caaggtgcga 360  
gattggctcc gtgtgattgc agccaacaag gaccacagcg tctatgagct gcggtacttc 420  
aacattgctg agaa 434



<210> 13456  
 <211> 219  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-056-Q1-K1-H12  
  
 <400> 13456  
  
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 gaccctgagg atgaagtgga gttgattgat gattcggact ttgatgcgga cggtgactct 120  
 gacgagtga gattgtagtc atccgtactt tggctgcaac aatatccagt ttgtgtcgtt 180  
 gcatgtgaca atttgataat gcatttcttg tgcgttgta 219

<210> 13457  
 <211> 148  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-056-Q1-K1-H7  
  
 <400> 13457  
  
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 ttatagtcac gtatctccat tctaaagtat ggttcaaata ttcattcttg ttacacaaca 120  
 tttgtccctg aatattccta attataac 148

<210> 13458  
 <211> 367  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-057-Q1-K1-A11  
  
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 atgctcgcaa gctcctatag cttcccttct tccccgtac ctctcaccag cggtgtcttc 180  
 ggtatgtgaa aacccaattc ttcaacccta caggatccaa caggcaatca cagctggcat 240  
 cttaccttta tcacccttgt tctgcaaca atcatcagcc ctattacatc agctaccttt 300

ggtgcattta ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa 360  
ccttgct 367

<210> 13459  
<211> 370  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-A2

<400> 13459

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tcctgcaagc aattcgttgt cccaagaaga cattgaggcc ctcaccaaga ggacacaaga 120  
tgggtgggaca gaggtggttg aagcaaaggc gggaaaaggc tctgcaacgt tgtccatggc 180  
atatgctggt gctgtttttg cagatgcatg tttgaagggt ctgaatggag ttccagacat 240  
tgtagagtgc tcttttgtgc aatcaactgt gacagagttg ccattctttg cctccaaggt 300  
tcggctcggc aagaatggag tggaggaagt gcttggtctg ggtgagctca acgagttcga 360  
gaagaagggc 370

<210> 13460  
<211> 476  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-A8

<400> 13460

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aacgaagaca cgaatagacg gcatgactac tgtcgtgaat gaggaactgg cgtgaagtgg 120  
atctgaatgc ttggatggac ttacgcagtc ctgaaaagag gcatacatga tgacggaata 180  
cttcagaagt ttctacgcaa ctcacgtagc acaaggcact tcaggagtat gacccatcgc 240  
tagtgggttg agagcacact tcaactggat gaaaggagat gctttaatct caaaggcttt 300  
agctattcat tccactcgaa agctacagca tgatctacta tgaggagtta ctacaacaga 360  
caagcaagtc aaactctcaa gctgtatgcc agaagaatgt tcatatgtgc tgaatctgat 420  
gaccttggtc caaaatatct gagctatttg aggtgtattg ttgactcaga cgcact 476

<210> 13461  
<211> 441  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-057-Q1-K1-B3

<400> 13461

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ccggtggggc tgagattccc ttccaccccg gtagggagga caagcctcag cccccacctg 120  
agggccgcct tcctgatgcc actaagggtt ctgaccacct gaggcaagtt tttggcaagc 180  
agatgggctt gagcgatcag gacattgttg ccttctctgg tggccacacc ttgggaaggt 240  
gccacaaaga gcggtctggt ttcgaggggg cctggactac aaaccctttg gtctttgaca 300  
actcttactt caaggaactt ctgagtgggtg ataaggaggg ccttcttcag ctcccaagtg 360  
acaaagccct gctgagcgac cctgtttttc cgcctcttgt cgagaaatat gctgcggatg 420  
agaaggctnn tcttgatgac t 441

<210> 13462  
<211> 179  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-B8

<400> 13462

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tagattgctt attagttgta attcaataat aaagtgtttt ggatgatgta tgtggccaac 120  
cagaaataag aagttacatt tccagattct aaaaaatata aaaaatgagt ataagaaac 179

<210> 13463  
<211> 270  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-C10

<400> 13463

accggtccgg cattcccggg ttgaccacg cgcccgcttg gctatagctg aattttcttg 60

ttagtccctg tagtgcttag ccaggggtaa cgtaaagagt tctgtttagg ttgccttctt 120  
 ggggccacaa tcatgtagca gaatgtgcgt gtgtttcagg ttagcgtggg ggtatgtgca 180  
 tctgtccaaa gagagtctgc aatttggcaa ccggatattt ggttatcaat ttcagttact 240  
 tcgaaaacaa aacatacgaa tatgtgacat 270

<210> 13464

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-C12

<400> 13464

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 ctgcctaata ctctcgccgc ggtcttgccg gtgccgcaga cggccatggg tctgcaagg 180  
 tgcccttgtg gaaagatccg ttgagcccg gcaagtggaa ggaagagcac tttgttctag 240  
 caagcctctc aatgtggggg gttatttttt atggcgggta caagctttct agtggaaga 300  
 atgaagccaa gactgaagcg gcatcaccac aggcataagt ggcctagatg gagttatacc 360  
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<210> 13465

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-D12

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 cgggcagaat tgccgaggtc cgtgggacca aggagcctaa gaacctgtac aacatgcact 120  
 tattgaaaca cttgacttag gcgaacatga agactgcgac gagccagtca gctgcaaagg 180  
 actctgctgt ggtcctctct actaccaaga ccaataagca gaacgcacct gcgaagctca 240  
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 ttactgacta ctactacagg cctgatctg 329

<210> 13466  
 <211> 61  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-057-Q1-K1-D8  
  
 <400> 13466

cccacgcgtc cgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa acaaaaagg 60  
 g 61

<210> 13467  
 <211> 294  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-057-Q1-K1-E5  
  
 <400> 13467

ggaatcccg gtcgaccac gcgtacgaaa aatcatggtt aattaaagt ttattgtaga 60  
 aaaaaaaaa aaataaaata gaaggga aaa aaaaaaaaa ataaaaaaaa aaaataaaaa 120  
 aaataaaaa aaagaaaaa aaaaaaaaa aaaaaaaata aaaataaaaa aaaaaagaga 180  
 aaaaaagtaa aaaaaaaaa agaagaaata aaaaagggg atcattctta aagatgcaaa 240  
 gtttattaac attatatata atggataaat ttataaaaa gggccgcaaa aatt 294

<210> 13468  
 <211> 399  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-057-Q1-K1-F1  
  
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 ggtgccacca gagcgagaac tgcatacccg tctgcaagag cgaggggaat accggcgggt 180  
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gtgctaataa agccccacag cagcatttga gttgatgagt agtaaagaag aacgcttttg 300  
 ttatgccagc gcaagctcta gaattcgagg ccgagatgac caaaaataaa tgattttgtt 360  
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<210> 13469

<211> 349

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-057-Q1-K1-F3

<400> 13469

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 aggtgaggag cgaacgcgac catatgggag aagtgactcc gtgctcatat aactagatct 180  
 gctctatgga tacttatcca tcattgacca gattgagtgt agtgaaaact cgatagctat 240  
 gaacactaca ggctttgaac acggtatact gcctacgcaa ctgaccttta taagccctgt 300  
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<210> 13470

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-F9

<400> 13470

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 aagatcggaa tcaatgggtt cggcaggatc ggaaagctgt atggacatgg tggccctgca 180  
 aagtgtcgat gtatagctca ttgccatgaa ctacgacttt atcatcaccg actatatgag 240  
 ctacatgttc aattactaga ctgtgcactg acagagcaag caccatgaaa ataaacgtaa 300  
 ggacttcaaa acccttctat tttatgagaa tg 332

<210> 13471

<211> 340

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-G3

<400> 13471

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gtgaacacgt accgcaggac attcactacc aagaatggca agaaggtag caaggcacct 240
aagatccagc ggcttgtgac ccccttgacc cttcagagga agcgtgctag aattgctgac 300
aagaagaaga ggatcgctaa gaagaagtct gaggtgctg 340
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<210> 13472  
 <211> 392  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-G9

<400> 13472

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tgcatatacc acaggcgact ccgcatactc gccaggctgc cccactggc accccaacga 180
gacctactgg ccagggtact actacagtca ccacttgctt caagtgtggt gaggttgggc 240
actacgcaa tgcttgtccg aagaggaatc ccaacacacc cgctcgaagc aatgtttaaa 300
gcaagcaaca gactctggct accggccagg ggtccaataa tgctagagtc aaccaaatta 360
gtgctgatgc tactgttgac gatgatgata tt 392
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<210> 13473  
 <211> 230  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-H3

<400> 13473

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 ttgcgatacct gtgaggacac atatgagaga aatatttagt ttgttgatgg caaatcttgt 180  
 cttatgttca tgcctgtacc tatctgatca agcgttatga tatgatccaa 230

<210> 13474  
 <211> 398  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-057-Q1-K1-H4  
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 tgtccaaggg ggcggcggtg aacaagtctg ccgtgctgtc catggccgcg ggattcctgg 300  
 ctatagtggg gggggaatta gggcgaatgc ggaccatggc agtgctgctt cggctttaca 360  
 caagctagtc atcaattgcg gttgcattct ctgtgacg 398

<210> 13475  
 <211> 224  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-057-Q1-K1-H9  
 <400> 13475

ttttaaaggg ttcaagctta actacctcat ttttccaact tattagcttt tttaaattgt 60  
 ccctaaatth aaataaattg cccgtatttt aaaaacgtat aacttggaag aacctgggga 120  
 tccccaatth aaatccctth gaagaaattc cccttttacc aagttgggta aatacaaaaa 180  
 agccccaaac gattggcctt tccaaaaatt tgccaaccta aatt 224

<210> 13476  
 <211> 450  
 <212> DNA



<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-A3

<400> 13476

accactcgt ccgacgcac cggtgccacg ctcttactcc gtcctagcgc tacttgccct 60  
ctttgtgagc gcagcaaag tgctcattat tccacaatgc tcacttgctc ctagtgccat 120  
tattccaaag ttctctccac cagttacttt aatgggcttc gaacacccag ctgtgcaagc 180  
ctacaggcta caacaagcgc ttgcggcgag cgtcttataa caaccaattg cccaattaca 240  
acaacaatcc ttggcacatc taacaatata aaccatcgca acgcaacagc aacaacagtt 300  
cctaccagca ctgagccacc tagccatggg gaaccctgcc gactacttgc aacaacaact 360  
gcttgcatcc aacgcacttg ctctggcaaa cgtagttgca aaccagcaac aacaatagct 420  
gcaacagttt ctgccagcgc tcagtcaact 450

<210> 13477

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-A6

<400> 13477

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ggctaccagc atattatccg tctttgggct tcttgccctt tttgtgagcg caacaaatgc 120  
tttcattatt acacaatgct cacttgctcc tattgccatt attccacact tctccctcc 180  
agttacttca atatgcttgc aacaccagc tgtgcaagcc tacaggctac aacaatctct 240  
tgcagcgagc gtcattataa caaccaattg tccaattaca acatcaatcc ttggcacatc 300  
taaccatata aaccatcgca acgcaacagc gacaacaatt tctaccatca ctgatccatc 360  
tacctgtgct gaaccctgtc gtctacttgc acagcaattg cttg 404

<210> 13478

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-B3

<400> 13478

tacattcacc aagcaatcta caacatgggt caatccataa tccaggagga gcaacaacgg 60

caaccatgtg agttatgtgg atctcaacaa gctactcaaa gtgcgggtggc aatcttgaca 120

gcagcacaat acctaccatc aatgtgcggc ttgtaccact catactacca aaataatcca 180

tgcagcagca atgacattag tgggtgtttgc aattgaagaa ttgtgtctac ctagccgtta 240

tactcctata acggtgttaa gcaataaagt accatacatt atgatgttaa aaaaagccat 300

agacagaaaa atggctcaaa gctaagcaag agatgtacca atcaacatta aaagagactc 360

cgatacatga gtacc 375

<210> 13479

<211> 124

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-B8

<400> 13479

accggtccgg aattcccggg ctgggcactt aatctgcatg gactaatttg gtttacttag 60

ggtgatcatc atcttctcac tcattttttg tttggtttgt gcaatggaat gagttgatca 120

atca 124

<210> 13480

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-C1

<400> 13480

tgcacccacg cgtgcgcca cgcgtccgga agaggagat acatgttaat ttttaggtac 60

cagatcatct gattgctcag aagcgaaatg ttgtttggag ctcaagtaca ccatcttgta 120

atgcctgtga ttttacggga aatggaggat cattctgtcc atcccatgtc taagtctaac 180

catggctcct tgtcaggaaa tggttatgag atgaaacatt caggccataa agtttgcat 240

agggattcat catcggagtc tgatcggctc caccaagaag catcagcagc aagtgaagc 300

agtcctaatg aacacacatc aactcaatca gacaatgatg aagatcatgg gaaagataat 360

caggacacaa tgaagccagt attgtccttg gggaaggaag gctctgcctt ttggccccaa 420  
aattacatta cagccca 437

<210> 13481  
<211> 248  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-D1

<400> 13481

attcccggtt ctaccactc gtccgaatga ggtataaatc atcgttgtgg tgtaaaaaaa 60  
ttaaaaaaaaa ataaaaaaaa aaaagaaaaa cggaaaaatt aaaaaaaaaa ataaaaaatt 120  
aaaaaaaaaa ataaaataaa aaaatataaa gtacaacctt ttttaaattt ccaaacttac 180  
tttcacttac tttcaacata ataactttcc tttaatgtcc caaaatttca attcattacc 240  
ctttatttt 248

<210> 13482  
<211> 462  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-D11

<400> 13482

cggaattccc gggtcgacct acgcggccgc tcaactacat gtttgatctc agcgagcagc 60  
atgcccacag cattgttagc aagatgggga tgcgtgaaga gtttcatgct agctgggacc 120  
agccaacaaa gtgcatcgta ttccatagtg tggaccaaac taggcttcag gggctactct 180  
tccagatggc agataagctc tcggtcctgg tggagatcaa tgagagggca tacgaggcaa 240  
gaactggttg tgctctcgag ggggtaccgc ccaggcgagc gggtaggggt caggataata 300  
tgggaaagtg gcaggataac tttgtctcgt cacaggggag gcagggtggt ggcaaccggt 360  
ttggatactc cggcagaggt gcaatatctg gtcaaagtgg tggtaggacac cagaggggaca 420  
ggggcaatca gggttaccgc gggggctatg gtggcggttc aa 462

<210> 13483  
<211> 123  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-E5

<400> 13483

cctccatccg cactactgag agcgacaaag ctagctctct ccagggatcg gattcggagc 60

accatgccgt ccaccgtgaa ctccgcgtcc ctcgaccaga accttgagct cgccaagcaa 120

tgc 123

<210> 13484

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-F9

<400> 13484

tacctcctcg gaattccccg gtcgaccac tcgtcctcg actcttgga aaaaaaaaaa 60

aaaattaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagaaa aaagaaacca aaaaaaaaaa 120

aaaaaggcca cccatttata agatcccaac ttaactaccc cttcattcca aataattact 180

tttttttttag tgcacctaaa ttcaattcca ttgccctttt tttaaaacct tcttacttga 240

aaaacccttg ccttacccaa attaattccc tttaaaaaaa ttccccctttt cccaacttgc 300

tttattacca aaaagccccg acctattcgc ctttccaaaa ttttcccaac cttaattgcc 360

aattggaacc cccctttaac cgcccattta acccgcgcgt ttttggtgtt tcccc 416

<210> 13485

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-058-Q1-K1-G2

<400> 13485

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tgccggtcct ctgggcagcc agttanattg tacgactagg tatcgtcgta cgtcgtgccg 120

catgcatgca tgcgcagaag gccaaagatgg ctatgcagaa agcgtagcat atatcataca 180

tgagcaacgc caaactgtgt agatatgtgc aagttttgca gtgtgctaaa tgcattgtgcg 240

cattgaagag gcaagcagcc caatttgcta ctcatggcca gtaatcgaac aatgataatg 300  
 ttgccaaaac tactagcgca tgttacatcg tgtgatgcat atcactatat gagcatgtgg 360  
 aatcaagcat gcatcctgag atagtagctg tgctggtata tattactgca tt 412

<210> 13486  
 <211> 350  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-G7

<400> 13486

ggaattcccg gctcgacgcc acgcgtccgt gaacaattga aatgaaacga aaaaagtttt 60  
 gttccaaaaa aaaaaaaaaa aaaaaaaga aaataaaaaa aaaaaaaaaa ataaaacaaa 120  
 cactctaaag gttccacgct ttctgtacatc caaatttaca ttcccttctt ttctatgtca 180  
 tcactcttat atattgtaac ctaacttcaa ttcacatacc catcggtata caaaaccctg 240  
 actttcaaaa ccttatcctt acccaactta ttcccttttt agccaattcc cttttcacca 300  
 actagcctaa taccgatcag ccttgcaccc atcgcccttc ctaacatttc 350

<210> 13487  
 <211> 255  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-H7

<400> 13487

gtgaaaataa agcatccttt tactataatt gatgtcgcat tagttattct gaaccaggg 60  
 agcctgggtc agtacctact accctgttta tcataggacg tggagagAAC tcgtccagtt 120  
 ttacattccc gtcactgctt tgccggagtg ctgtggcaat ccataaaatc taataaagta 180  
 acaataagct gtctgcaact gcaaaaaaaaa aaataaaaaa aaaaaaaaaa aacaaaaaga 240  
 aaaaaaataa acaaa 255

<210> 13488  
 <211> 395  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-H9

<400> 13488

aaggaaaagg gtctgcagaa atcctcttat gcagggtggaa agaagctaag aacatatcac 60  
aatcttttga cgataaaaagc ggagatcctc tatgatgagg tcaaacaaaa catgttttcta 120  
cggaatcaag aaagcttgac acagtcgatt ctgtaggcat tccacccaaa ccccgtagcac 180  
atgctatgga aaccacccaa ttcagggcac aggaaaatta ttggttcttc acggacatgg 240  
aaatggcatc ataagagttc tctccaatct cttcaatatc cccagttatc gttacggatt 300  
tcacgtcaa acttcttcct gagttcaggg tactttctcaa agtaatcatc tgetgtcatt 360  
gtactgatct ttttcctcat ttcctccatt tcagc 395

<210> 13489

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-A1

<400> 13489

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caccagtga gcccggcggc gacgccctac ggctcgccac agtgccaggc gctgcagcag 120  
cagtgtgcc accagatcag gcagggtggag ccgctgcacc ggtaccaggc gacatacggc 180  
gtggtcctgc agtccttcct gcagcagcag ccgcagggcg agtcgcggc gctgatggcg 240  
gccaggtag cgcagcagct gacggcgatg tgcggcctgc agctgcagca gccaggtccc 300  
tgcccttgca acgcagctgc cggcgggtgtc tactactgag gaaactatgt actggagtaa 360  
taatgtaatg gagccgctgg ctagctacct agctcgctag ttactcatt t 411

<210> 13490

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B1

<400> 13490

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tgccttttga tgaagccaaa ctttgtcggg gcgaaaatgg tcctgagcta aagcaagaga 120  
 ttcagaagca atttagaaac attagtgcaa ttatggactg tgttggatgc gagaagtgcc 180  
 gactgtgggg aaagctccaa gttcatggtc ttggaactgc actgaaaatt cttttctctg 240  
 ttgatgggga cagccatatg aatcagccat tgcagctgca gcgaaatgag gtcattgcat 300  
 tgttcaatct tctgaacagg ctctcagagt ctgtcaaatt tgtacatgaa aaaggatcat 360  
 caattgaaga agtcattgag gaacagatcc cttcaacggg tcaaaagagt gtttccatgc 420  
 cgaatcttaa actggactta ctctgagatg tatgagagta atttgtagtt atac 474

<210> 13491

<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B11

<400> 13491

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 ctctagtcac aagttccttg caaacgattg cctatcccc tcccaaccaa agacctatgg 120  
 cacccaatgc cgagaagaag cccactccca agaaa 155

<210> 13492

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B3

<400> 13492

ggcccgaat tcccgggtcg acccactcgt ccggttaaga agtgggtctc caagactagt 60  
 tgaactgaac gattttgtgc gtcaacgaca cagcaaagga tttcttgatg ttcttagttt 120  
 tagtgagacc caggtcacac cgattgttga aggatatggc ggttgggcac ttcgtatgga 180  
 gatagtgcc aattgaatctg cataccagg ctttggggag cttgtcgttc taccgtccac 240  
 tgatcatata aattcatgta agccagttaa catgaacgat ctttcttatg cggaacctt 300  
 ggcatttttg gagaagaact tcaaattatg cctggaaaga gcagagtcct aggtcttgtc 360  
 aatggcgccg tggagttttc agcaatctga aggcttcatt ttccatttac cgtcagagac 420

ttttctcccg ttaacgacga atggtggttg atctgaccat atgatctggg c 471

<210> 13493  
<211> 193  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B4

<400> 13493

accactcgt ccgactgtta attcgttcta tctgcctacc ttctgcattc tcttgaaccc 60  
attctctata cgagtatcga tatcactgag ctaaaactta tcattcgact gcattccatc 120  
atctatatat aaactatcga cttcgatctc ttccgccacga tccatctcta aatcagcact 180  
cactacctta cct 193

<210> 13494  
<211> 476  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-C1

<400> 13494

tcctgcattc ccggatcgac ccactcgtcc gattgagacc aactagcaac atagaaagca 60  
caatattgta ccaataatgg cagccaaaag attttggtctc attatgctcc ttggtctttc 120  
tgcaagtgtc gctacggcga gcattttccc gcaatgtcga caagctccta tagcttccct 180  
tcttccccca tacctctcac cagcgatgtc ttcagtatgt gaaaatccaa ttcttctacc 240  
ctacaggatc caacaggcaa tcgcagcagg catcttacct ttatcacctt tgttctctca 300  
acaatcatca gccctattac agcagttacc tttggtgcat ttattggcac aaaacatcaa 360  
ggcacaacaa ctacaacaac tcgtgctagc aaaccttgct gcctactctc agcaacagca 420  
gttacctttg gtgcatttgc tggcacaaaa catcaaggca caacaactac aacaac 476

<210> 13495  
<211> 429  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-C10



<400> 13495

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attagccctc cttgcgcttc ttgccctttt tgtgagcgca acaaatgcgt tcattattcc 120

acaatgctca cttgctccta gtgccattat accacagttc ctccgaccag ttacttcaat 180

gggcttcgaa cacctagctg tgcaagccta caggctacaa caagcgcttg cggcgagcgt 240

cttacaacaa ccaattaacc aattgcaaca acaatccttg gcacatctaa ccatacaaac 300

catcgcaaca caacagcaac aacagttcct accagcactg agccaactag atgtggtgaa 360

ccctgtcgcc tacttgcaac agcaggtgct tgcattcaac ccacttgctc tggcaaacgt 420

agctgcata 429

<210> 13496

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-C11

<400> 13496

taagaactgt ttggtcattc agtgggtctgg agataatcct aatagccttg cagggttagc 60

tctgaatacc cctggtgatc ttgccattag ccttgggtact agtgatacag tattcgggat 120

aacaacagaa gctaaaccaa gccttgaagg acatgttttc cccaatcctg ttgagcctaa 180

tggttatatg gtcattgctat gctacaaaaa tggctccttg accagagaag atgtacgaaa 240

tctctgtgca gacaaatcat gggacgtttt taacagctat ctggagaaaa cgccccctct 300

aaatggtggg aagttaggat tctactacta agaccatgaa atcctcccta cacttccagt 360

gggtttccat cggtagactg ttgaaaacct gaacgacgct tcattcagacg ctctgttgga 420

gcgtgaa 427

<210> 13497

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-C5

<400> 13497

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gaagaggcat ctcaactgcag aggggtgagat gaaatatgaa ccaaccattg gtgttgaagt 120  
tcacccgttg gatctcacca ctaactgttg taagatcacg ttctactgct gggataccgc 180  
atggcaagag aagtttgggtg gcctcatgga tggatactat atccatggcc agtgtgcat 240  
catcatgttt gatgtaacct caaggcttac ttacaagaat gttcctacgt ggcataagga 300  
cctgtgcaat gtctgtgaaa aca 323

<210> 13498

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-C8

<400> 13498

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agcaagcagc agccgtcggt ggaagatgtc gtacctgtg ccgcatctgc actcgggggtg 120  
ggcgggtggac caggccatcc tcgccgagga ggagcgcctc gtcacatcc gcttcggcca 180  
tgactgggac gagacctgca tgcagatgga tgaagtgcta gcagcagtag ctgagaccat 240  
aaagaacttt ggggtcatct accttgttga catcacagag gtccctgatt tcaacaccat 300  
gtatgagctg tacgaccctt cgacagtgat gttcttcttc cggaacaagc acatcatgat 360  
tgatctcggg actggaaaca acaacaagat caactgggcc ctgaaggtag agcaagagtt 420  
catcgacatt gtggag 436

<210> 13499

<211> 136

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-C9

<400> 13499

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gggtctaaaag aatccaagct tacatacgcg tgcagtgtac atcatatctc ttctatagtg 120  
ccacctaaat tcaatt 136

<210> 13500  
 <211> 447  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-059-Q1-K1-D1  
  
 <400> 13500  
  
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 tgctcctagt gccagtattc cacagttcct cccaccagtt acttcaatgg gcttcgaaca 180  
 tccagccgtg caagcctaca ggctacaact agcgcttgcg gcgagcgctt tacaacaacc 240  
 aattgcccac ttgcaacaac aatccttggc acatctaacc ctacaaacca ttgcaacgca 300  
 tcaacaacaa caacagtttc tgccatcact gagccaccta gccgtggtga accctgtcac 360  
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 ccagcaacaa caacagctgc aacagtt 447

<210> 13501  
 <211> 358  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-059-Q1-K1-E5  
  
 <400> 13501  
  
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 catagaacgt atcggcggcc atgggtcatca gactcggcca gaactctatg atgacgcgct 180  
 agacgaacct catgcagaac actgtcagtc cttgcgagca gcttgaactg atcatgaagg 240  
 ccgtcaacgt gcaatacaag aagcgcatgc acacgtatta tagaccgcct acaaaggcga 300  
 aatcagctga cattcctagg ctaggccatg cactgtcaga gtctacgagc tggttgcca 358

<210> 13502  
 <211> 324  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-E8

<400> 13502

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tcagtatcaa aaggatcatag cacaatgtaa agttcttaga tcaagataca tactgatggc 120  
aataacctct ctatagaatc atcaaagtta cacctccaga tccttagtat cacatgccat 180  
atgtatacca tttatgatgc tagaatgtac cgatataaac taccctacca ttgcagaaaa 240  
acctaattat gaacctctgt atttacatta actgatttca atcaaatata tatctaattc 300  
tatataatac tcaaattggt cata 324

<210> 13503

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-F10

<400> 13503

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ttctggaggt taatactaag acaacaaagc tccgggaagt cattgaaaaa gttataaaaa 120  
gcaaacttgg aatgaacctc cctttgataa tgggttggtgc cacgctagtt tttgaggatg 180  
gtgaagattt ggaagaggat gaaattgcaa attatgcttt aaacctcgaa aaggctcttg 240  
ctgaacttcc agctccagtt ctaaattgta caacacttac agtcgaggat tttcatcaag 300  
aactaaaatg cagtatcaac atcaaacaca gggacgagtt tgatgaagaa aaggagcctg 360  
acggaatggg tcttgctggg tggctctggc cagttgataa gcaaattacc agtaatgggtg 420  
agaatagat 429

<210> 13504

<211> 147

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-G12

<400> 13504

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ttcgggtgttg tgtatggaac ggtcgtcact gagtcattgca cgatttggtta tccgtgttgt 120  
 ttatgttcac cggtttgagg aactctc 147

<210> 13505  
 <211> 347  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-H1

<400> 13505

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 cgccgggacc tccttcgtgc cggagtgggc catcccgac aaccgctcc cgagctgccg 180  
 ctggtacgtg acctgccgga cctgctgcat cgagccttgc ctcccgctggc cggagctgat 240  
 gatgagatgc tgccgggagc tgacggacat cccggcgtac tgtctgcgca cggagctgaa 300  
 catcctcatg gactgctcga ttacgtccgg cctggactcc catctat 347

<210> 13506  
 <211> 442  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-H10

<400> 13506

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 ctggtacca agattgatag gcgatccggc aaggagctgg agaaggagcc caaatctctc 180  
 aagaacggtg atgctggtat ggtgaagatg gttccacta agcccatggt ggtggagacc 240  
 ttttctcagt atcctcctct tggtcgattt gctgtccgtg acatgaggca aacggtggct 300  
 gtcggagtca tcaagagtgt ggagaagaag gacccaactg gagccaaggt gacgaatgct 360  
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 tgcgcaatca tgtgcatgga aggacctacg gaaactgtct gcatggacat gccaacccg 240  
 ttcatacact gctgactatc acatgacacg aacgcttgga gtgtgtgctt accgcgttct 300  
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 <212> DNA  
 <213> Zea mays  
  
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agagcactat tctattttctg agcgggactc agctgaggca gccatgcaag atgctgcacg 300  
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<210> 13510

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-A7

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atagccaagg agctgctcaa tgggcagaag gtggtcgctg tccgctgcga ggagatctgc 180  
atgtcgggcg gcctcgtagt tcagaagatg aagtacctcc gcttctctcc caagcggatg 240  
aacaccaagc cgtcccacgg gcccatccac ttccgcgccc ccgccaagat cctgtggcgc 300  
accatccgcg ggatgattcc gcacaagacc aaaagggggg agggggctct ggcgaggctc 360  
aagacgtacg 370

<210> 13511

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-A8

<400> 13511

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atccattttg tacagacagg caacattgat cttagggcca agaaagaagc tcaactcggc 180  
atgcttcttg tttgaagcaa gggcaacaaa cttacccac cagatctctg tcgccaagc 240  
agggctagtg aataagctgt gtttctctcc ggattgtcac tgcttttata tttgtgcatt 300  
tattttgagg gaaacatttt gcccaaaaaa ggctgcagt gcacgtttta aacaagtcatt 360  
ttgaaccaac tcttatgctg aaaactgtat gtgatactgc agaaggcaac acacta 416

<210> 13512  
<211> 142  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-B11

<400> 13512

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agcgctttcg tgttgcgcct ca 142

<210> 13513  
<211> 427  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-060-Q1-K1-B12

<400> 13513

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aagtgtgct acgacgacca ttttcccgca atgctcacia gctcctatag cttctcttct 180  
tccccatac ctctcaccag cgttgtcttc agtatgtgaa aaccaattc ttcaacccta 240  
caggatccaa caggcaatca cagcaggcat cttaccttta tcacccttgt tctccaaca 300  
atcatcagcc ctattacatc aattaccttt ggtgcattta ttggcacana acatcagggc 360  
acaacaacta caacaactcg tgctagcaaa ccttgctgcc tacgctcagc aacagcagtt 420  
acctttg 427

<210> 13514  
<211> 410  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-C5

<400> 13514



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 actatgccct tctactcttt ggtgggttcgc ttagtccgag caaaactgga gaaggcattg 180  
 agatgcttgg gggttatctt catttctcgg ctccaaagcg taccatagag ttgattcaga 240  
 aattaagagg tgaattggac aaactccttc agaaaaagat tgaggaacct ggactcgaca 300  
 tcttttcgca aggaaagggg gttgtggcgg cagctgtaga actgctacac agtcaaaatt 360  
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<210> 13515

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-C7

<400> 13515

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 attggcctgc gtccccaagc acaaaataat caactacagt aacacgaccg gatcgatacg 180  
 gtgctttttt tagctctgat tgaaatgaac gaacgtatga acgacgaact tccgccgcca 240  
 atttggttta ttgccttccc tttgccgtga aaccctcgt acgtagcaca cgacggccgc 300  
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<210> 13516

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-C8

<400> 13516

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 gcacgtgccc gtagacacgt cgactcttgc cagacgagca ccaactccgg cctctgctcc 180

tacaacgaga tcggatactc cacagacatg caccatggtg ctgcggatct tatgctacgg 240  
 ataactgatc tggaaccccg gctaacacat taactacaaa atcctcggct tcataaaggg 300  
 ttacattcgc acctttaatc ttgcttgcat tgaccacaga ggcacaccgt aacatgcagc 360  
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<210> 13517

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-D9

<400> 13517

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 cttgcatgag aatgcacctc ctccgtccat tatctgagac atctgacttg atcctagtcg 180  
 catccattac acattcccct cacagctgtt aaaacactga acaaagaaca cccaaatatg 240  
 aacggctctt tgctacaaca cacatctgac tccagtttct atctacttca tcttatcctg 300  
 attcagcatc actcctatgg acatttaacc atacaaacta tcttatcata cagctaacat 360  
 aatatactac ctgactagac tcatata 387

<210> 13518

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-E5

<400> 13518

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 gcgccaagga agcagctggc caccaaggcg gcgcgcaagt ctgccccggc gaccggcgga 180  
 gtgaagaagc cccaccgttt ccgccccggc accgtcgcgc tccgggagat ccgcaagtac 240  
 cagaagagca cggagctgct gatccgcaag ctgccgttcc agcgcctggt gcgtgagatc 300  
 gccaggact tcaagaccga cctccgcttc cagagctccg ccgtcgcgcg gctgcaggag 360

gcgtccgagg cctacctcgt cggtctcttc gaggacacca acctctgcgc cattcacgcc 420

<210> 13519

<211> 73

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-F12

<400> 13519

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cctacattca att 73

<210> 13520

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-F7

<400> 13520

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tttaccagca tattataacc tgccttcctt ttctgaacgc tcaacggacc ggaccaattg 120

cttgattatt gcacaaagct taatttgctt aaggttcaag attacacaag ttcttcgaac 180

aagtacctca attggcttag aacacccaag tatgcaatgc tatatgctac aacaagcaat 240

tgcggcgagc gtgttacaac aaccaatttc ccagttgcaa caacaatcct tggcacatat 300

aacactacac accatcgcaa cgcaacagca acaacaattc ctaccagcac tgagccacct 360

agccatggtg aaccctgccg cctacttgca acagcagttg cttgcatcaa acccacttgc 420

<210> 13521

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-G11

<400> 13521

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catagtgcct tatttcataa tcttttctta attagttata attttaatgt gagccccacc 180  
ccactgccgt cagcttatga actgatgttt gctgccacag tatgaagggt cgaggagcca 240  
tttctagttg ccttccggac aacaacttga aagttcttgt accagtgcta gagaaatctg 300  
tgtcatttca tctgcagctg aacatgatga caagggaaac gcattcagct gtgactgaag 360  
tcatcgaaag a 371

<210> 13522  
<211> 418  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-G12

<400> 13522

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ccgtccaaga gcagctcaaa ggcaagcaag aagagacgct gatctactta taggtcgcag 180  
ttgacggtgt aactggtggt tttgcctgga ggaactcttg gtagtttgag ctgtgcgaaa 240  
gcttttaagt atacatttac tcaccactcc atgaacggca acgaagtatt catcagttag 300  
aaaagtgcac ctataattta ggttgcttat aactctctat ttgtcagaca tttaactcga 360  
aggacctgtt actaggaaag ctaattttgc ttggaagaac attctgataa ataacagt 418

<210> 13523  
<211> 441  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-060-Q1-K1-G3

<400> 13523

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agctcggcgc agcgggcagc agctgccgcc ctgctcgtgg cggtggtcgt cctgggtggtg 180  
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gccaaagacga cggacccgcc ggccgcgcgc tcgcaggcgt gctgcgacgc gctggcagtg 300

gcggaccta agtgctgtg cggctacaag aactcgccgt ggatgggctg ctacaacatc 360  
gaccacaagc gcgccatgga gctgccggcc aagtgcggcc tcgccacgcc gnccgactgc 420  
tagccaagcc aagcaggaag g 441

<210> 13524  
<211> 282  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-060-Q1-K1-H11  
<400> 13524

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aaaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa ataataacaa ataaaaaaaaa 180  
aaaaaaaaata attaagaaaa atctgaatac aaaatacaaa aaaaatacac atcagattaa 240  
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<210> 13525  
<211> 421  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-060-Q1-K1-H3  
<400> 13525

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atgcggttgc aggcggtag cggcgtgcca tcccatgccc gtggtggtgt gcgatacggc 180  
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<210> 13526  
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<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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tgcagaactg gagcagctac taatgtcatt tttgggcttg ctttgggtta caaatcagtc 180  
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gatgcatatg gccctatcag tgataatgct ggaggaatag ctgaaatggc tgggatgagc 360  
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<210> 13527  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-G9

<400> 13527

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<210> 13528

<211> 425  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3060-015-Q1-K1-G3  
  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3060-038-Q1-K1-B1  
  
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 gaggaagttc gtcggcagtt caacaacatc cctgggctca tggaaggcac cacaagcct 240  
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 <211> 430  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3060-032-Q1-K1-D3  
  
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 aatcatcatg tgctgctctt gttgtggcct ctatctcgtc ttttggaatc aaccatgaat 240  
 ttactccgat ggtgtaccct cttctcgta gttctgttgg tattatagca tgtctcataa 300  
 caacgctgtt tgcaactgat ttcttcgaga taaaggctgt ggatgaaata gagcctgctc 360  
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<210> 13531

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-E10

<400> 13531

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 gtttggactg atggacttac cagtcttgat cgttacaaag gacgatgcta tcacatcgag 300  
 cccgttcttg gggaccacaga tcaatatatc tgttatgtag cttatccatt agacctatctt 360  
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<210> 13532

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-C3

<400> 13532

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tgtacacatt atatatgaat gaaacatatt cattaactta agcatactcc ttttttttatt 180  
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 cgcctaattcc atatcgagta gaccctgtcg ttgtgagaat tcttaattca tgagttgtaa 300  
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<223> Clone ID: LIB3060-020-Q1-K1-A10

<400> 13533

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 gcctaattcca tatcgagtag accctgtcgt ttgtgagaatt cttaattcat gagttgtacg 300  
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 <211> 406  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-F8

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 gcagcattcc gagtaactcc tcagctctgg gttccgcctg aagaagcaag agctgcagta 180  
 gctgcggaat cttctactgg tacatggaca actgttttga ctgatggact taccagtctt 240

gatcgttaca aaggacgatg ctatcacatc gagcccgttc ctgggtaccc agatcaatat 300  
atgtgttatg tagcttatcc attataccta tttgaagagg gttctgttac taacatgttt 360  
actttcattg tgggtaacgt atttggtttc aaagccttac gcgctc 406

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<213> Zea mays  
<223> Clone ID: LIB3060-020-Q1-K1-H7  
<400> 13535

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gctatcacat cgagcccgtt cctggggacc cagatcaata tatctgttat gtagcttatac 180  
cattagacct atttgaagag ggttctgtta ctaacatgtt tacttccatt gtgggtaacg 240  
tatttggttt caaagcctta cgcgctctac gtttggagga tctacgaatt cccctgctt 300  
attcaaaaac tttccaaggt ccgcctcacg gtatccaagt tgaaagggat aagttgaaca 360  
agtacggtcg gtctttattg ggatgtacta tttaaacc aa attggga 407

<210> 13536  
<211> 431  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3060-052-Q1-K1-B5  
<400> 13536

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ggacgatgct atcacatcga gcccgttcct ggggaccag atcaatatat ctgttatgta 180  
gcttatccat tagacctatt tgaagagggt tctgatacta acatgtttac ttccattgtg 240  
ggtaacgtat ttggtttcaa agccttacgc gctctacgtt tggaggatct acgaattccc 300  
gctgcttatt caaaaacttt ccaaggtccg nctcacgta tccaagttga aagggataag 360  
ttgaacaagt acggtcgtcc tttattggga tgtactatta aaccaaatt gggattatcc 420

gcaaaaaaatt a

431

<210> 13537

<211> 183

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-D4

<400> 13537

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agagggttct attactaaca tatttacttt cattgtgggt aacgtattta gttgcaaagc 120

cttacacgct ctacttttgg aggatctacg aattccccct ggtgattcaa aaacttttca 180

agg 183

<210> 13538

<211> 163

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-A3

<400> 13538

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tgctatcaca tcgagcccggt tcctggggac ccagatcaat atatctgtta ttagacttat 120

ccattagacc tatttgaaaa aggtttctgg tactaacatg ttt 163

<210> 13539

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-E12

<400> 13539

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gctgacatct gcgccaacca gtggaagtga agcgttgcat tgtaatagca ctttgtaact 120

cctcaccctt cacagggtt tgggattcac cccgaaatga ctacttttcg gtgaaattca 180

cccgttatcg gcgagggcgt tttatttttc ttgtcaaatg atttcattgg 230

<210> 13540  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-A10

<400> 13540

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ggcacacaaa gctcatgctt caacccaagg agttaccaag tatttgaagc ctgctgttgc 180
cggcttcctc atgcataatg aacttgacta ccttggttga actggttgcca acccaaagaa 240
gccatttgcc gctattgttg gtggatccaa ggtctcaagt aagattggtg tcattgaatc 300
cttgctggcg aaagtcgata tccttatcct tgggtggtggt atgatctaca cattttacaa 360
agcacaagga tattctgttg gaaaat 386
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<210> 13541  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 13541

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agagctcatg cttcaaccga aggagttacc aagtatttga agcctgctgt tgccggcttc 180
ctcatgcaga aggaacttga ctaccttgtt ggagctgttg ccaacccaaa gaagccattt 240
gccgctattg ttggtggatc caaggctcct agtaagattg gtgtcattga gtccttgctg 300
gcgaaggctg atatcctcat ccttggtggt ggtatgatct acacatttta caaggcacia 360
ggatattctg ttggaaaatc tctcgtggaa gaggataaac tngagctcgc aacttctctt 420
attgagaac 429
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<210> 13542

<211> 434  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-G5

<400> 13542

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cttattgaga aggccaaggc aaaggggggtt tctcttttgc ttccactga tattgtagta 120  
gctgacaagt ttgcagctga tgctgagagc aagattgtcc ctgccactgc tatccctgat 180  
gactggatgg gtcttgatgt tggccctgat gccacaaaa cattcaacga agcattggac 240  
accaccaaga ctgttatttg gaacggcccc atgggagtggt ttgagttcga gaagtttgca 300  
gctggcactg aggcgattgc caagaagcta gctgagctta caaccacgaa ggggtgtcact 360  
accatcatcg gggggggcga ctctgttgcg gctgtcgaga aggctgggct ggccgacaag 420  
atgagccaca tttc 434

<210> 13543  
<211> 395  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-H6

<400> 13543

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cggcaggctc gtggccaggg tcgccctgca gagcgaggat gtcgagctcg tcgccgtcaa 180  
cgaccccttc atcaccacgg attacatgac gtacatgttc aagtacgaca ccgtgcacgg 240  
ccaatggaag cacagcgaca tcgccctcaa ggactccaag acgcttctct tcggcgagaa 300  
gccggtcacc gtctttggca tcaggaaccc cgaggagatc ccgtgggggtg aggctgggtc 360  
tgagtatgtc gtggagtcca ccggtgtctt cactg 395

<210> 13544  
<211> 384  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-D9

<400> 13544

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tcaagtccgc cgccagcctc cccgtcgtcc gccgcagcac caggagcctc ggcaacgtca 180  
gcaacggcgg aaggatccgg tgcattgcagg tgtggccggc ctacggcaac aagaagtctg 240  
agacgtgtgc gtacctgccg ccgctgtcga cggacgacct gctgaagcat gtggactacc 300  
tgctgccccaa cggctggata ccctgcctcg agtcagcatg ctcggttctg tgtaccgcga 360  
gaactccacc taccgtgct acta 384

<210> 13545

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-H3

<400> 13545

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ttgcgatggc gccaccgtg atgatggcct cgtcggcaac cgccgtcgcc ccgttccagg 120  
gtctcaagtc cgccgccagc ctccccgtcg cccgccgcag caccaggagc ctcggaacg 180  
tcagcaacgg cggaaggatc cggatgcattg aggtgtggcc gggctacggc aaccagaagt 240  
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<210> 13546

<211> 316

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-034-Q1-K1-B7

<400> 13546

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atgatggcct cgtcggcaac cgccgtcgcc ccgttccagg gtctcaagtc cgccgccagc 120  
ctccccgtcg cccgccgcag caccaggagc ctcggaacg tcagcaacgg cggaaggatc 180

cggtgcatgc aagtgtggcc ggcctacggc aacaagaagt tcgagacgct gtcgtacctg 240  
 ccgncgctgt cgacggacga cctgctgaaa caggtggact acctgctgcg caacggctgg 300  
 ataccctgcc tcgagt 316

<210> 13547  
 <211> 368  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3060-028-Q1-K1-D3  
 <400> 13547

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 ctccccatcg cccgccgctc ctccagaagc ctccggaacg tcagcaacgg cggaaggatc 180  
 cggtgcatgc aggtgtggcc ggcctactgc aacaagaagt tcgagacgct gtcgtacctg 240  
 ccgncgctgt cgacggacga cctgctgaag cangtggact acctgctgcg caacggctgg 300  
 ataccctgcc tcgagttcag caaggtcggc ttcgtgtacc gcgagaacct tcaactccccg 360  
 tgctacta 368

<210> 13548  
 <211> 382  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3060-041-Q1-K1-G7  
 <400> 13548

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 acatcatctc catggcgacg gccccctcgg acgtgctcgc cgtggagctc ctgcagcgcg 180  
 agtgcggcgt gcgccagccg ctgcccgtgg tgccgctgtt cgagaggctg gccgacctgc 240  
 agtcggcgcc cgcgtccgtg gagcgctctt tctcggtgga ctggtacatg gaccggatca 300  
 agggcaagca gcaagtcatg gtcggctact ccgactccgg caaggacgcc ggccgnctgt 360

ccgcggcgtg gcagctgtac ag

382

<210> 13549

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-G11

<400> 13549

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gcatgcaccc gccggtctct cccaagcccg agtggcgcaa gctcatggac gagatggcgg 120

tcgtggccac ggaggagtac cgctcggtcg tcgtcaagga gccgcgcttc gtcgagtact 180

tcagatcggc tacaccggag accgagtacg ggaggatgaa catcggcagc cggccagcca 240

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<210> 13550

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-C11

<400> 13550

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agagctccac agttcgtctg gttccaaagt taccaagtat tacatagaat tctggaagca 180

aattcctcca aacgagccct accgggtgat actaggccat gtaagggaca agctgtacaa 240

cacacgcgag cgtgctcgcc atctgctggc ttctggagtt tctgaaattt cagcggaatc 300

gtcatttacc agtatcgaag agttccttga gccacttgag ctgtgctaca aatcactgtg 360

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<210> 13551

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations



<223> Clone ID: LIB3060-052-Q1-K1-B6

<400> 13551

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cccctacatc atctccatgg cgacggcccc ctcggaactg ctcgccgtag agctcctgca 180  
gcgcgagtgc ggcgtgcgcc agccgctgcc cgtggtgccg ctgttcgaga ggctggccga 240  
cctgcagtgc ggcgccgct cctgggagcg cctcttctcg gtggactggt acatggaccg 300  
gatcaagggc aagcagcagg tcatggtcgg ctactccgac tccggcaagg acgccggccg 360  
nctgtccgcg gcgtggcagc tgtacagggc gcangaggag atggcgcgang tggccaagcg 420  
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<210> 13552

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-012-Q1-K1-B10

<400> 13552

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ctcctgcgcc aggtgttcac gttcgggctc tccctggtga agctggacat ccggcaggag 180  
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cgcgagtggc cggaggacaa gaagcaagaa tggctgctgt ccgagctgcg aagcaagcgc 300  
ccgtgctgc ccccgacct tccccagacc gacgagatcg ncgacgtcat cggcgcgttc 360  
cacgtinctg cggagcttcc gcccgacagc ttcggcccct acatcatctc catggcgacg 420  
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<210> 13553

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-G7

<400> 13553

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gttccttgag ccaattgagc tgtgctacaa atcactgtgt gactgcggcg acaaggccat 180

cgcggacggg agcctcctgg acctcctgcy ccagggtgtc acgttcgggc tctccctggt 240

gaagctggac atccggcagg agtcggagcy gcacaccgac gtgatcgacg ccatcaccac 300

gcacctcggc atcgggtcgt accgcgagtg gcccaggagc aagaggcagg agtggctgct 360

gtcggagctg caaggcaagc gcccgttgtt gcccccgga 399

<210> 13554

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-E11

<400> 13554

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tatgcttgct ggccagaatg atggctgcaa acttgtagat cgatcagatt gaagagctga 120

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acagttcgtc tggttccaaa gttaccaagt attacataga attctggaag caaattcctc 240

caaacgagcc ctaccgggtg atactaggcc atgtaaggga caagctgtac aacacacgcg 300

agcgtgctcg ccatctgctg gcatctggag tttctgaaat ttcagcggaa tcgtcattta 360

ccagtatcga agagttcctt gagccacttg agctgtgcta caaatcactg tgtgactgcy 420

gcgac 425

<210> 13555

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-F9

<400> 13555

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acgcacctcg gcatcggggtc gtaccgcgag tgggccgagg acaagaggca ggagtggctg 240  
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atcgccgacg tcacggcggc gttccacgtc ctgcgggagc tcccgcccga cagcttcggc 360  
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cgcgag 426

<210> 13556  
<211> 461  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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ctcgtggact cagaccaggt tccaccttcc cgtgtggctg ggagtcggcg ccgccttcaa 180  
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cattgccggc ttgtatgacg agctgcttgt ggcggaagaa ctcaagccct ttgggaagca 360  
gctcagggac aaatacgtgg agacacagca gcttctnctn cagatcgctg ggcacaagga 420  
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<210> 13557  
<211> 251  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3060-009-Q1-K1-C3  
<400> 13557

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ctgcgaggca agcgcccgt gctgcccccg gacctttccc agaccgacta gatcgccgac 120  
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cggcgtgcgc c 251

<210> 13558  
<211> 413  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3060-014-Q1-K1-D4

<400> 13558

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cagctgggtcc caggcaaggt ctccgaggac gacaagctca tcgagtacga tgcgtgctc 180  
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gagctcggcg ccaagctcac gngctggcc cctgccgacg ccatectcgt ggcgagctcc 360  
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<210> 13559  
<211> 388  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-H6

<400> 13559

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cgcgcagctc cgtcagctgg tcccaggcaa ggtctccgag gacgacaagc tcatcgagta 180  
cgatgcgtg ctgctcgacc gtttctcaa catccttcag gacctccacg ggcctagcct 240  
tcgcgaattt gtccaggagt gctacgaggt atcggccgac tacgagggca aaggagacac 300  
gacgaagctg ggcgagctcg gcgccaagct cacggggctg gccctgccg acgccatcct 360

cgtaggcgagc tccatcctgc acatgctc

388

<210> 13560

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-011-Q1-K1-G8

<400> 13560

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gcgagctcc gtcagctggt cccaggcaag gtctccgagg acgacaagct catcgagtac 180

gatgcgctgc tcgtcgaccg cttcctcaac atccttcagg acctccacgg gcctagcctt 240

cgcgaatttg tccaggagtg ctacgaggta tcggccgact acgagggcaa aggagacacg 300

acgaagctgg gcgagctcgg cgccaagctc acggggctgg cccctgccga cgccatcctc 360

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gcgcacccgnc gncgcaacag caaactcaa 449

<210> 13561

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-E2

<400> 13561

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cgatgcgctg ctgctcgacc gcttctcaa catccttcag gacctccacg ggctagcct 240

tcgcgaattt gtccaggagt gctacgaggat atcgcccgac tacgagggca aaggagacac 300

gacgaagctg ggcgagctcg gcgccaagct cacggggctg gccctgccg acgccatcct 360

cgtggcgagc tccatcctgc acatgctcaa cctcgccaac ctggccgagg aggtgcagat 420

cgcgacccgg c

431

<210> 13562

<211> 304

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-026-Q1-K1-H9

<400> 13562

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ctcaacctcg ccaacctggc cgaggaggtg cagatcgcg accgncgccg caacagcaaa 180

ctcaagaaag gtggcttcgc cgacgaaggc tccgccacca ccgagtccga catcgaggag 240

acgctcaagc gcctcgtgtc cgaggtcggc aagtcccccg aggaggtgtt cgaggcgctc 300

aaga 304

<210> 13563

<211> 274

<212> DNA

<213> Zea mays

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<212> DNA

<213> Zea mays

<223> unsure at all n locations

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